```
0000:0000
                                             This file is generated by The Interactive Disassembler (IDA)
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0000:0000
0000:0000
0000:0000
0000:0000
                                  ; File Name : E:\Projects\NeoKong\arcade\dkong.bin
; Format : Binary File
; Base Address: 0000h Range: 0000h - 4000h Loaded length: 4000h
0000:0000
0000:0000
0000:0000
                                  ; Processor: z80 ; Target assembler: Table Driven Assembler (TASM) by Speech Technology Inc.
0000:0000
                                 ; Segment type: Pure code ; segment 'ROM'
0000:0000
0000:0000
0000:0000
0000:0000 3E 00
                                  RESET:
                                                                                                                                    ; CODE XREF: 0000:00B2|j; DATA XREF: 0000:0FCD|o
                                                                      a, 0
0000:0000
                                                          ld
0000:0002 32 84 7D
0000:0005 C3 66 02
0000:0008
                                                          ld
                                                                       (nmi_mask), a
INIT
                                                          SUBROUTINE
0000:0008
0000:0008
0000:0008
0000:0008
                                                                                                                                    ; CODE XREF: sub_0_315+7|p
                                 return_if_attract_mode:
0000:0008 3A 07 60
0000:0008
0000:0008 0F
0000:000C D0
                                                                                                                                    ; sub_0_51C+1|p ...
                                                          14
                                                                      a, (attract_mode_flag)
                                                                                                                                    ; in attract mode?
                                                          rrca
                                                                                                                                    ; no, return
                                                          ret
                                                                      nc
0000:000C B0
0000:000D 33
0000:000E 33
0000:000F C9
                                                          inc
                                                                      sp
sp
                                                                                                                                    ; discard return address
                                                          ret
                                  ; End of function return if attract mode
0000:000F
0000:0010
0000:0010
                                                        SUBROUTINE
0000:0010
0000:0010
0000:0010
0000:0010 3A 00 62
                                  return_if_mario_not_alive:
                                                                                                                                    ; CODE XREF: sub_0_3A2+3|p; sub_0_2C03+3|p ...
0000:0010
                                                          14
                                                                      a. (is mario alive)
0000:0010
0000:0013 0F
0000:0014 D8
0000:0015 33
0000:0016 33
0000:0017 C9
0000:0017
                                                                                                                                    ; is mario alive?
; yes, return
                                                          rrca
                                                          ret
                                                          inc
                                                                      sp
                                                          inc
                                                                                                                                    ; discard return address
                                                          ret
                                  ; End of function return_if_mario_not_alive
0000:0017
0000:0017
0000:0018
0000:0018
                                                        SUBROUTINE ...
0000:0018
0000:0018
0000:0018 21 09 60
0000:0018
                                                                                                                                       CODE XREF: return_NOT_16bit_timeout+4|j0000:0A63|p ...
                                  return_NOT_8bit_timeout:
                                                                      hl, eight_bit_countdown (hl)
                                                          ld
0000:0018
0000:001B 35
                                                          dec
0000:001B 33
0000:001C C8
0000:001D 33
0000:001E 33
                                                          ret
inc
                                                                       z
sp
                                                                                                                                    ; discard return address
                                                          inc
                                                                      sp
0000:001F C9
0000:001F
0000:001F
                                                          ret
                                  ; End of function return_NOT_8bit_timeout
0000:0020
0000:0020
0000:0020
0000:0020
                                                   SUBROUTINE
                                                                                                                                    ; CODE XREF: 0000:0763|p; 0000:084B|p
0000:0020
0000:0020 21 08 60
0000:0020
0000:0023 35
                                  return NOT 16bit timeout:
                                                                      hl, sixteen_bit_countdown_msb
(hl)
                                                          ld
                                                          dec
0000:0023 33
0000:0024 28 F2
0000:0026
0000:0026
0000:0026 E1
                                                          jr
                                                                      z, return_NOT_8bit_timeout
                                                                                                                                    ; CODE XREF: print_message_A+1A|j; sub_0_1783+4|j
                                 pop_hl_ret:
0000:0026
0000:0027 C9
0000:0027
                                                                      hl
                                                                                                                                    ; discard return address
                                  ; End of function return_NOT_16bit_timeout
0000:0027
0000:0028
0000:0028
0000:0028
0000:0028
                                            SUBROUTINE
0000:0028
0000:0028
0000:0028 87
0000:0028
                                                                                                                                     ; CODE XREF: 0000:00C9-p
                                  jump_table_go_A:
                                                                                                                                    ; 0000:0701 p ...
; entries are words
                                                          add
                                                                      a, a
0000:0029 E1
0000:002A 5F
0000:002B 16 00
0000:002D C3 32 00
                                                          pop
ld
ld
                                                                      h1
                                                                                                                                    ; return address is table base
                                                                      e, a
d, 0
                                  jp loc_0_32
; End of function jump_table_go_A
                                                                                                                                    ; skip vector address
0000:002D
0000:002D
0000:002D
                                                 SUBROUTINE ....
0000:0030
0000:0030
0000:0030
0000:0030
                                  sub 0 30:
                                                                                                                                       CODE XREF: sub 0 3A2+2 p
0000:0030 18 12
                                                                                                                                    ; 0000:1668 p ...
                                                                      return_if_level_bit_not_set
0000:0032
                                                                                                                                    ; CODE XREF: jump_table_go_A+5↑j
; get address of entry
                                 loc 0 32:
0000:0032
0000:0032 19
0000:0033 55
0000:0034 23
0000:0035 56
0000:0036 EB
0000:0037 E9
                                                                      hl, de
e, (hl)
hl
                                                          add
1d
                                                                      d, (hl)
de, hl
(hl)
                                                          ld
ex
                                                                                                                                    ; DE = jump address
; HL - jump address
; go
                                                          jр
0000:0038
0000:0038
```

```
CODE XREF: animate_kong_and_pauline+F|p animate_kong_and_pauline+65|p ...
0000:0038
                                        add_c_sprite_register_x10:
0000:0038 11 04 00
                                                                                                                                                                ; every 4th byte
; loop 10 times
0000:0038
0000:0038 06 0A
0000:003D
                                                                                                                                                                ; CODE XREF: sub_0_30+11|j; 0000:0D9A|p ...
0000:003D
0000:003D 79
0000:003D
0000:003E 86
                                        loc_0_3D:
                                                                                     a, c
a, (hl)
                                                                                     a, (hl)
(hl), a
hl, de
loc_0_3D
                                                                       add
0000:003F 77
0000:0040 19
0000:0041 10 FA
0000:0043 C9
                                                                       ld
                                                                                                                                                                ; (HL)+=C
                                                                       add
                                                                                                                                                                ; next byte
; loop
                                                                       djnz
                                                                       ret
0000:0044
0000:0044
0000:0044
                                        return_if_level_bit_not_set:
    ld    hl, level_type
    ld    b, (hl)
                                                                                                                                                                ; CODE XREF: sub_0_30<sup>†</sup>j
0000:0044 21 27 62
0000:0044 21
0000:0047 46
0000:0048
0000:0048
                                                                                                                                                                ; get level type
                                         loc_0_48:
                                                                                                                                                                ; CODE XREF: sub_0_30+19|j
0000:0048 OF
                                                                       rrca
0000:0049 0F
0000:0049 10 FD
0000:004B D8
0000:004C E1
                                                                                                                                                                ; get bit of A for level
; bit set, return
; discard return address
                                                                      djnz
ret
                                                                                     loc_0_48
                                                                                     hl
                                                                      gog
0000:004D C9
                                                                       ret
0000:004D
0000:004D
0000:004E
                                         ; End of function sub_0_30
0000:004E
0000:004E
0000:004E
0000:004E
                                                                   SUBROUTINE
                                         copy_sprites_2_11_data:
                                                                                                                                                                   CODE XREF: animate_kong_and_pauline+4D|p
0000:004E 11 08 69
                                                                                                                                                                ; animate kong_and_pauline+77|p ...; ptr sprite #2; 10 4-byte sprites to copy; copy 40 bytes of sprite data
0000:004E 11 08 09
0000:004E
0000:0051 01 28 00
0000:0054 ED B0
                                                                                     de, soft_sprite_ram+8
bc, 40
                                                                       1d
                                                                       ld
                                                                       ldir
0000:0054 ED
0000:0056 C9
0000:0056
                                         ret; End of function copy_sprites_2_11_data
0000:0057
0000:0057
0000:0057
0000:0057
                                                           SUBROUTINE
0000:0057
0000:0057
3A 18 60
0000:0057
0000:005A 21 1A 60
                                                                                                                                                                ; CODE XREF: 0000:00B9 p
                                         rand:
                                                                                                                                                                ; sub_0_2523+22 p ...
                                                                                     a, (random_no)
hl, gen_purpose_timer
a, (hl)
                                                                       ld
                                                                                     a, (h1)
h1, random_no+1
a, (h1)
0000:005D 86
                                                                       add
0000:005D 86
0000:005E 21 19 60
0000:0061 86
0000:0062 32 18 60
0000:0065 C9
0000:0065
                                                                      ld
add
                                                                                     (random no), a
                                                                       ld
                                         ; End of function rand
0000:0066
                                         ; -
0000:0066
0000:0066
0000:0066 F5
                                         nmi:
                                                                                     af
                                                                       push
0000:0067 C5
0000:0068 D5
0000:0069 E5
0000:006A DD E5
0000:006C FD E5
                                                                      push
push
push
                                                                                     bc
de
hl
                                                                       push
                                                                                      ix
                                                                      push
xor
ld
                                                                                     iy
0000:006C FD E5
0000:006E AF
0000:006F 32 84 7D
0000:0072 3A 00 7D
0000:0077 C2 00 40
0000:007A 21 38 01
0000:007A 21 38 01
0000:007B 3A 7
0000:0083 A7
0000:0084 C2 B5 00
0000:0087 3A 26 60
                                                                                     a (nmi_mask),
                                                                                     (nm1_mask), a
a, (in2_snd_latch)
1
                                                                                                                                                                ; disable nmi
                                                                       1d
                                                                                                                                                                ; IN2 ; bit 0 set?
                                                                       and
                                                                       jp
ld
                                                                                     nz, 4000h
hl, dma_reg_tbl
                                                                                                                                                                ; yes, boom! (not valid code)
                                                                                     dma_sprite_data_to_hw
a, (attract_mode_flag)
                                                                      call
ld
and
                                                                                                                                                                ; update sprites
                                                                                                                                                                ; in attract mode?
; yes, skip reading inputs
                                                                                     nz, loc_0_B5
                                                                       jp
ld
and
0000:0084 C2 B5 00
0000:0087 3A 26 60
0000:008A A7
0000:008B C2 98 00
0000:008E 3A 0E 60
0000:0091 A7
0000:0092 3A 80 7C
0000:0095 C2 9B 00
                                                                                     a, (upright)
                                                                       jp
ld
                                                                                     nz, loc_0_98
                                                                                     a, (unk_0_600E)
                                                                       and
ld
                                                                                                                                                                ; cocktail control?
; (cocktail)
                                                                                     a, (in1)
nz, loc_0_9B
                                                                                                                                                                ; yes, skip
                                                                       jр
0000:0098
0000:0098
0000:0098 3A 00 7C
0000:009B
                                                                                                                                                                ; CODE XREF: 0000:008B<sup>†</sup>j
; (upright)
                                        loc_0_98:
                                                                       ld
                                                                                     a, (in0)
                                                                                                                                                                ; CODE XREF: 0000:00951i
0000:009B
                                        loc 0 9B:
0000:009B

0000:009B 47

0000:009C E6 0F

0000:009E 4F

0000:009F 3A 11 60

0000:00A2 2F

0000:00A3 A0

0000:00A4 E6 10
                                                                       ld
and
ld
ld
                                                                                     b, a
0Fh
                                                                                                                                                                   store INO/1
joystick only
                                                                                                                                                                   store
last raw input
                                                                                     c, a
a, (last_raw_in)
                                                                       cpl
and
and
                                                                                                                                                                   negate
rising-edge detect
                                                                                     b
10h
                                                                                                                                                                ; rising-
; button
0000:00A6 17
0000:00A7 17
0000:00A8 17
0000:00A9 B1
                                                                       rla
rla
rla
                                                                                                                                                                ; bit 7 ; add joystick bits
                                                                       or
0000:00AA 60
0000:00AB 6F
0000:00AC 22 10 60
0000:00AF 78
                                                                       ld
ld
ld
                                                                                     h, b
                                                                                                                                                                ; raw controller input
                                                                                     1, a (controller_in), hl
                                                                                                                                                                    joystick and button press
                                                                                                                                                                ; store
                                                                       ld
                                                                                     a, b
6. a
0000:00AF 78
0000:00B0 CB 77
0000:00B2 C2 00 00
0000:00B5
                                                                       bit
                                                                                     6, a
nz, RESET
                                                                                                                                                               ; reset input?
                                                                       jр
                                                                                                                                                                ; CODE XREF: 0000:00841i
0000:00B5
                                         loc 0 B5:
0000:00B5
0000:00B5 21 1A 60
0000:00B8 35
0000:00B9 CD 57 00
0000:00BC CD 7B 01
0000:00BF CD E0 00
0000:00C5 E5
0000:00C5 E5
0000:00C6 3A 05 60
0000:00C9 EF
0000:00C9 CO
                                                                                     hl, gen_purpose_timer
                                                                      ld
dec
call
                                                                                                                                                                ; general purpose timer tick
                                                                                     rand
                                                                                                                                                                ; randomise
                                                                       call
                                                                                     sub 0 17B
                                                                       call
ld
                                                                                     update_sounds
hl, nmi_exit
                                                                                                                                                                ; IRQ resume address
                                                                       push
1d
                                                                                     hl
                                                                                           (nmi_sequencer)
                                                                       rst
                                                                                                                                                                ; go!
0000:00C9
0000:00CA C3 01
0000:00CC 3C 07
                                                                                                                                                                ; Jump table (nmi sequencer)
                                                                       .dw init machine settings
                                                                       .dw vector_on_main_sequencer
```

```
0000:00CE B2 08
                                                                   .dw vector_on_credit_sequencer .dw vector_on_ingame_sequencer
0000:00D0 FE 06
0000:00D2
                                                                                                                                                        ; DATA XREF: 0000:00C2\dagger
                                       nmi_exit:
                                                                                 iy
ix
hl
0000:00D2 FD E1
                                                                   qoq
0000:00D4 DD E1
0000:00D6 E1
0000:00D7 D1
                                                                   pop
                                                                   pop
                                                                                 de
0000:00D8 C1
0000:00D9 3E 01
0000:00DB 32 84 7D
0000:00DE F1
                                                                   pop
ld
ld
                                                                                 bc
                                                                                  a, 1
(nmi_mask), a
                                                                                                                                                        ; enable nmi
                                                                   pop
                                                                                 af
0000:00DF C9
0000:00E0
0000:00E0
0000:00E0
                                                                    ret
                                                                    SUBROUTINE
0000:00E0
0000:00E0
0000:00E0
0000:00E0 21 80 60
0000:00E3 11 00 7D
0000:00E6 3A 07 60
0000:00E9 A7
                                                                                                                                                        ; CODE XREF: 0000:00BF1p
                                       update_sounds:
                                                                   ld
                                                                                 hl, digital_snd_tmrs
                                                                   ld
                                                                                 de, in2_snd_latch
                                                                                                                                                        ; base of digital sound triggers
                                                                   ld
and
                                                                                 a, (attract_mode_flag)
                                                                                                                                                        ; in attract mode?
                                                                   ret
                                                                                 nz
                                                                                                                                                        ; yes, return
; 8 digital sound triggers
0000:00EB 06 08
                                                                                 b. 8
                                                                   ld
0000:00EB 00
0000:00ED
0000:00ED 7E
                                                                                                                                                        ; CODE XREF: update_sounds+18|j
; timer for this sound
; done?
                                       loc_0_ED:
                                                                                a, (hl)
                                                                   ld
0000:00EE A7
0000:00EF CA F5 00
0000:00F2 35
0000:00F3 3E 01
                                                                   and
                                                                                                                                                        ; yes, skip
; decrement timer
; enable
                                                                   jp
dec
                                                                                 z, loc_0_F5 (hl)
0000:00F5
0000:00F5
0000:00F5 12
0000:00F6 1C
                                                                                                                                                       ; 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
0000:00F6 1C
0000:00F7 2C
0000:00F8 10 F3
0000:00F8 21 8B 60
0000:00FD 7E
0000:00FE A7
0000:00FF C2 08 01
0000:0102 2D
0000:0103 2D
0000:0104 7E
0000:0105 C3 0B 01
0000:0108
                                                                   inc
                                                                   inc
                                                                   djnz
ld
                                                                                  loc_0_ED
                                                                                hl, unk_0_608B
a, (hl)
                                                                   ld
                                                                   and
                                                                                 nz, loc_0_108
                                                                   dec
dec
                                                                   ld
                                                                                 set_bg_sound_music
                                                                   jр
0000:0108
0000:0108
0000:0108
0000:0108 35
0000:0109 2D
0000:010A 7E
0000:010B
0000:010B
                                       loc_0_108:
                                                                                                                                                        ; CODE XREF: update_sounds+1F<sup>†</sup>j
                                                                                 (hl)
                                                                   dec
                                                                                 a, (hl)
                                                                   ld
                                                                                                                                                        ; get background sound/music
                                                                                                                                                        ; CODE XREF: update_sounds+251j
                                       set_bg_sound_music:
0000:010B 32 00 7C
0000:010E 21 88 60
0000:0111 AF
0000:0112 BE
                                                                                                                                                        ; background sound/music select
                                                                   1d
                                                                                  (in0).
                                                                   ld
                                                                                 hl, unk_0_6088
                                                                   xor
                                                                                  a
(hl)
                                                                   ср
0000:0113 CA 18 01
0000:0116 35
0000:0117 3C
                                                                   jp
                                                                                     loc_0_118
                                                                                  (hl)
 0000:0118
0000:0118
                                       loc_0_118:
                                                                                                                                                        ; CODE XREF: update sounds+331i
0000:0118
0000:0118 32 80 7D
0000:011B C9
0000:011B
0000:011C
0000:011C
                                                                   ld
ret
                                                                                 (dsw_audio_irq), a
                                                                                                                                                        ; digital sound - dead
                                       ; End of function update_sounds
                                       ; SUBROUTINE
0000:0110
0000:011C
0000:011C
0000:011C 06 08
                                                                                                                                                        ; CODE XREF: sub_0_17B+1A|p; 0000:02B5|p ...
                                       stop_sound:
0000:011C
0000:011E AF
0000:011F 21 00 7D
0000:0122 11 80 60
                                                                   1d
                                                                                 b, 8
                                                                   xor
ld
                                                                                 hl, in2_snd_latch
de, digital_snd_tmrs
                                                                                                                                                        ; sound latch
; copy in RAM
                                                                   ld
0000:0122 11 80

0000:0125

0000:0125

0000:0125 77

0000:0126 12

0000:0127 2C

0000:0128 1C

0000:0129 10 FA
                                       loc_0_125:
                                                                                                                                                        ; CODE XREF: stop_sound+D|j
                                                                                 (hl), a
(de), a
                                                                   ld
                                                                   1d
                                                                   inc
                                                                                  loc 0 125
                                                                                                                                                        ; write 8 bytes
                                                                   djnz
0000:012B 06 04
                                                                   1d
0000:012B 06 04

0000:012D

0000:012D 12

0000:012E 1C

0000:012F 10 FC

0000:0131 32 80 7D

0000:0134 32 00 7C

0000:0137 C9

0000:0137

0000:0137

0000:0137

0000:0137
                                                                                                                                                        ; CODE XREF: stop_sound+13|j
                                       loc_0_12D:
                                                                                  (de), a
                                                                   ld
                                                                   inc
                                                                                 loc_0_12D (dsw_audio_irq), a (in0), a
                                                                   djnz
ld
ld
                                                                                                                                                        ; another 4 copies
; audio IRQ
                                                                                                                                                        ; audio 1kg
; background music = NONE
                                       ret; End of function stop_sound
0000:0137
0000:0138 53
0000:0138
0000:0139 00 69
                                                                   .db 53h
                                       dma_reg_tbl:
                                                                                                                                                           DATA XREF: 0000:007A10
                                                                                                                                                           DMA mode (TC stop, CH0,1)
CH0 address
CH0 terminal count (RD 0x180 bytes)
                                                                   .dw soft_sprite_ram
0000:013B 80 41
0000:013D 00 70
0000:013F 80 81
0000:0141
                                                                    .dw 4180h
                                                                                                                                                          CH1 Address
CH1 terminal count (WR 0x180 bytes)
                                                                    .dw SPRAM_start
                                                                   .dw 8180h
                                                                  SUBROUTINE
0000:0141
0000:0141
0000:0141
                                                                                                                                                        ; CODE XREF: 0000:007D↑p
0000:0141
                                       dma sprite data to hw:
0000:0141 AF
0000:0142 32
0000:0145 7E
                                                                   xor
0000:0141 AF
0000:0142 32 85 7D
0000:0145 7E
0000:0146 32 08 78
0000:0149 23
0000:014A 7E
0000:014B 32 00 78
                                                                   ld
ld
                                                                                  (p8257_drq), a
                                                                                                                                                        ; deassert DRQ0&1
; 0x53
                                                                                 a, (h1)
(i8257_io+8), a
                                                                   ld
                                                                                                                                                        ; mode set
                                                                                 hl
                                                                                      (hl)
                                                                   ld
                                                                                                                                                        ; 0x00
; CH0 DMA address LSB
                                                                                 a, (hl)
(i8257_io), a
                                                                   ld
0000:014E 23
0000:014F 7E
                                                                                 h1
                                                                                 a, (hl)
                                                                   ld
                                                                                                                                                        ; 0x69
```

```
0000:0150 32 00 78
                                                                                            (i8257_io), a
                                                                                                                                                                          ; CHO DMA address MSB
                                                                                          hl (hl)
0000:0153 23
0000:0153 23
0000:0154 7E
0000:0155 32 01 78
0000:0158 23
                                                                                                                                                                          ; 0x80
; terminal count LSB
                                                                           1d
                                                                                           a, (hl)
(i8257_io+1), a
                                                                                          (1025._
hl
a, (hl)
(i8257_io+1), a
0000:0158 23

0000:0159 7E

0000:015A 32 01 78

0000:015D 23

0000:015E 7E

0000:015F 32 02 78

0000:0163 7E

0000:0164 32 02 78

0000:0164 32 02 78
                                                                           ld
                                                                                                                                                                          ; 0x41 ; terminal count MSB
                                                                           ld
inc
ld
                                                                                          hl
a, (hl)
                                                                                          a, (hl)
(i8257_io+2), a
                                                                                                                                                                           ; 0x00
                                                                                                                                                                           ; CH1 DMA address LSB
                                                                           1d
                                                                           inc
ld
ld
                                                                                                                                                                          ; 0x70
; CH1 DMA address MSB
                                                                                           a, (hl)
(i8257_io+2), a
                                                                                          hl (hl)
0000:0167 23
0000:0168 7E
0000:0169 32 03 78
0000:016C 23
                                                                           inc
ld
ld
                                                                                                                                                                          ; 0x80 ; CH1 terminal count LSB
                                                                                           a, (h1)
(i8257_io+3), a
                                                                                          hl
a. (hl)
                                                                           inc
0000:016C 23
0000:016D 7E
0000:016E 32 03 78
0000:0171 3E 01
0000:0171 32 85 7D
0000:0176 AF
0000:0177 29 85 7D
                                                                           ld
                                                                                                                                                                           ; 0x81
                                                                                           a, (hl)
(i8257_io+3), a
                                                                           ld
ld
                                                                                                                                                                           ; CH1 terminal count MSB
                                                                                           (p8257_drq), a
                                                                           ld
                                                                                                                                                                          ; assert DROO&1
                                                                           xor
ld
                                                                                           (p8257_drq), a
                                                                                                                                                                           ; deassert DRQ0&1
                                                                           ret
                                            ; End of function dma_sprite_data_to_hw
0000:017A
0000:017A
0000:017B
                                                                         SUBROUTINE
0000:017B
0000:017B
0000:017B
0000:017B
0000:017B
0000:017B 3A 00 7D
                                                                                                                                                                          ; CODE XREF: 0000:00BC1p; read IN2
                                           sub_0_17B:
                                                                                          a, (in2_snd_latch)
7, a
                                                                           ld
0000:017B A 00 7D
0000:017E CB 7F
0000:0180 21 03 60
0000:0183 C2 89 01
0000:0188 C9
0000:0188 C9
0000:0189
                                                                           bit
ld
                                                                                           7, a
hl, unk_0_6003
nz, loc_0_189
(hl), 1
                                                                                                                                                                           ; coin?
                                                                                                                                                                          ; yes, skip
                                                                           jp
ld
                                                                                                                                                                          ; CODE XREF: sub 0 17B+81i
0000:0189

0000:0189 7E

0000:018A A7

0000:018B C8

0000:018C E5

0000:018D 3A 05 60

0000:0190 FE 03

0000:0195 CD 1C 01

0000:0198 3E 03

0000:0198 3E 03

0000:0198 3E 03
0000:0189
                                           loc_0_189:
                                                                           ld
and
                                                                                          a, (hl)
                                                                           ret
                                                                           push
ld
                                                                                          a, (nmi_sequencer)
                                                                                           hl
                                                                           ср
                                                                           jp
call
ld
ld
                                                                                                loc 0 19D
                                                                                           stop_sound
                                                                                           a, 3
(digital_snd_tmrs+3), a
0000:019D
0000:019D
0000:019D E1
0000:019D E1
0000:019E 36 00
0000:01A0 2B
0000:01A1 34
0000:01A2 11 24
0000:01A5 1A
                                           loc_0_19D:
                                                                                                                                                                         ; CODE XREF: sub_0_17B+17 j
                                                                           pop
ld
                                                                                           (hl), 0
                                                                           dec
inc
ld
ld
                                                                                           h1
                                                                                            (hl)
                                                                                           de, coinage+2
a, (de)
0000:01A6 96
0000:01A7 C0
0000:01A8 77
0000:01A9 13
                                                                           sub
ret
ld
                                                                                           (hl)
                                                                                           nz
(hl), a
                                                                           inc
dec
                                                                                           de
hl
0000:01AA 2B
                                                                                          de, hl
a, (de)
90h; 'É'
0000:01AA 2B
0000:01AB EB
0000:01AC 1A
0000:01AD FE 90
                                                                           ex
ld
                                                                           cp
ret
0000:01AF D0
0000:01B0 86
0000:01B1 27
                                                                                           nc
a, (hl)
                                                                           add
                                                                           daa
                                                                                           (de), a
0000:01B2 12
0000:01B3 11 00 04
0000:01B6 CD 9F 30
0000:01B9 C9
                                                                           1d
                                                                                           de, 400h
sub_0_309F
                                                                           ld
                                                                           call
                                                                           ret
0000:01B9
0000:01B9
0000:01B9
                                            ; End of function sub_0_17B
                                                                                                                                                                          ; DATA XREF: 0000:159D\o
; Initial score and high score on bootup
0000:01BA 00 37 00 AA+byte_0_1BA:
                                                                           .db 0, 37h, 0, 0AAh, 0AAh, 0AAh, 50h, 76h, 0
0000:01BA AA AA 50 76+
0000:01C3
0000:01C3
0000:01C3
0000:01C3 CD 74 08
0000:01C6 21 BA 01
0000:01C9 11 B2 60
0000:01CC 01 09 00
                                                                                                                                                                           ; DATA XREF: 0000:00CA<sup>1</sup>o
                                            init machine settings:
                                                                           call
ld
ld
                                                                                           clear_visible_area_and_sprites
hl, 1BAh
de, unk_0_60B2
                                                                           ld
0000:01CC 01 09 00
0000:01CF ED B0
0000:01D1 3E 01
0000:01D3 32 07 60
0000:01D6 32 29 62
0000:01D6 CD B8 06
0000:01DF CD 07 02
                                                                           ldir
ld
                                                                                          (a, 1
(attract_mode_flag), a
(level), a
(life_no), a
display_lives_and_level
sub_0_207
                                                                                                                                                                         ; set attract mode flag
                                                                           ld
ld
                                                                           ld
call
                                                                           call
0000:01E2 3E 01
0000:01E4 32 82 7D
0000:01E7 32 05 60
0000:01EA 32 27 62
                                                                           ld
ld
ld
ld
                                                                                           a, 1
(flipscreen), a
(nmi_sequencer), a
(level_type), a
0000:01EA 32 27 62

0000:01ED AF

0000:01EE 32 0A 60

0000:01F1 CD 53 0A

0000:01F4 11 04 03

0000:01F7 CD 9F 30

0000:01FA 11 02 02

0000:01FD CD 9F 30
                                                                           xor
ld
call
ld
                                                                                           (main_sequencer), a display_1UP
                                                                                                                                                                          ; game screen sequencer
                                                                                           de.
                                                                           call
ld
call
ld
                                                                                           sub_0_309F
de, 202h
sub_0_309F
0000:0200 11 00 02
0000:0203 CD 9F 30
0000:0206 C9
                                                                           call
ret
                                                                                           sub_0_309F
 0000:0207
                                                                         SUBROUTINE ...
0000:0207
0000:0207
0000:0207 3A 80 7D
0000:020A 4F
0000:020B 21 20 60
                                                                                                                                                                          ; CODE XREF: 0000:01DF1p
                                            sub_0_207:
                                                                           ld
                                                                                           a, (dsw_audio_irq)
                                                                                                                                                                              read DIPSW
                                                                                                                                                                           ; store
                                                                                           hl, lives_per_game
                                                                           ld
                                                                                                                                                                          ; lives setting
; init no. of lives
0000:020E E6 03
                                                                           add
0000:0210 C6 03
```

```
(hl), a
                                                                        ld
                                                                                                                                                                   ; store no. of lives
0000:0212 77
0000:0213 23
0000:0214 79
0000:0215 0F
0000:0216 0F
0000:0217 E6 03
0000:0219 47
0000:021A 3E 07
0000:021C CA 26 02
0000:021F 3E 05
                                                                         inc
                                                                                       hl
                                                                                       a, c
                                                                        1d
                                                                                                                                                                   ; DIPSW
                                                                        rrca
rrca
                                                                                                                                                                   ; bonus life setting
                                                                        and
                                                                        ld
ld
                                                                                       b, a
                                                                                                                                                                   ; 7,000?
                                                                                       a, 7
z, loc_0_226
                                                                                                                                                                   ; yes, skip
; 5,000?
                                                                        jp
ld
0000:0221
0000:0221
0000:0221
0000:0221 C6 05
                                                                                                                                                                   ; CODE XREF: sub_0_207+1D|j
                                          loc_0_221:
                                                                                       a, 5
                                                                        add
0000:0223 27
0000:0224 10 FB
0000:0226
0000:0226
                                                                        daa
                                                                                       loc_0_221
                                                                                                                                                                   ; calculate 10/15/20K points
                                                                                                                                                                   ; CODE XREF: sub_0_207+15 j
                                         loc 0 226:
0000:0226
0000:0226 77
0000:0227 23
0000:0228 79
                                                                        ld
                                                                                        (hl), a
                                                                                                                                                                   ; bonus_setting
                                                                        inc
ld
                                                                                       hl
a, c
                                                                                                                                                                   ; DIPSW
0000:0228 79
0000:0229 01 01 01
0000:022C 11 02 01
0000:022F E6 70
0000:0231 17
0000:0232 17
                                                                                       bc, 101h
de, 102h
70h; 'p
                                                                        ld
                                                                                                                                                                   ; 1C P1 ; 1C P2
                                                                        ld
and
rla
                                                                                                                                                                   ; coinage setting
                                                                        rla
0000:0232 17
0000:0233 17
0000:0234 17
0000:0235 CA 47 02
0000:0238 DA 41 02
0000:023B 3C
0000:023C 4F
0000:023D 5A
                                                                        rla
rla
                                                                                                                                                                   ; coinage 0-7
                                                                                       z, loc_0_247
c, loc_0_241
                                                                                                                                                                   : 1C1C
: 2-5 coins
: no. credits
: C = credits
: D = coins
                                                                        jp
jp
inc
                                                                                       a
c, a
e, d
                                                                        ld
0000:023E C3 47 02
0000:0241
0000:0241
                                                                        jp
                                                                                       loc_0_247
                                                                                                                                                                   ; CODE XREF: sub_0_207+31 j
0000:0241
                                          loc 0 241:
0000:0241 C6 02
0000:0241 47
0000:0244 57
                                                                                                                                                                   ; no. coins
; B = coins
; D = coins
                                                                                       a, 2
b, a
d, a
                                                                        add
                                                                        ld
ld
                                                                                       a, a
e, a
0000:0245 87
                                                                        add
0000:0243 87
0000:0246 5F
0000:0247
0000:0247
                                                                        1d
                                                                                                                                                                   ; E = coins x2
                                                                                                                                                                   ; CODE XREF: sub_0_207+2E<sup>†</sup>j; sub_0_207+37<sup>†</sup>j
                                          loc 0 247:
0000:0247
0000:0247
72
0000:0247
0000:0248
23
0000:0249
73
0000:024A
23
                                                                        ld
inc
ld
                                                                                       (hl), d
                                                                                       hl
(hl), e
                                                                                       h1
0000:024A 23
0000:024B 70
0000:024C 23
0000:024D 71
                                                                        ld
                                                                                        (hl), b
                                                                                       hl (hl), c
                                                                        ld
0000:024E 23
0000:024F 3A 80 7D
0000:0252 07
                                                                        ld
                                                                                       a, (dsw_audio_irq)
                                                                                                                                                                   ; read DIPSW
; upright?
                                                                        rlca
0000:0252 07
0000:0253 3E 01
0000:0255 DA 59 02
0000:0258 3D
0000:0259
                                                                                       a, 1
c, loc_0_259
                                                                        1d
                                                                        jp
dec
                                                                                                                                                                   ; yes, skip
0000:0259
0000:0259
77
0000:0259 77
0000:0250 21 65 35
0000:0250 11 00 61
0000:0260 01 AA 00
0000:0265 C9
0000:0265
                                          loc_0_259:
                                                                                                                                                                   ; CODE XREF: sub_0_207+4E<sup>†</sup>j
; store cocktail/upright
                                                                                      (hl), a
hl, high_score_tbl
de, high_score_tbl_ram
                                                                                                                                                                   ; destination in RAM
                                                                        ld
                                                                        ld
                                                                                       bc, OAAh;
                                                                                                                                                                   ; length of table
                                                                        ldir
                                                                                                                                                                   ; copy to ram
                                                                        ret
                                          ; End of function sub_0_207
0000:0265
0000:0266
0000:0266
0000:0266
                                          INIT:
                                                                                                                                                                   ; CODE XREF: 0000:0005<sup>†</sup> †
0000:0266 06 10
0000:0268 21 00 60
0000:026B AF
                                                                                       b, 16
hl, RAM_start
                                                                        ld
                                                                                                                                                                   ; start of RAM
; zero byte
                                                                        xor
0000:026C
0000:026C
0000:026C
0000:026D
                                          loc_0_26C:
                                                                                                                                                                   ; CODE XREF: 0000:0272-j
                                                                        ld
                                                                                       c, a
0000:026D
0000:026D 77
0000:026E 23
                                          loc_0_26D:
                                                                                                                                                                   ; CODE XREF: 0000:0270-i
                                                                                        (hl), a
                                                                                                                                                                   ; zero memory
; next location
                                                                        ld
                                                                        inc
dec
                                                                                       hl
0000:026E 23

0000:026F 0D

0000:0270 20 FB

0000:0272 10 F8

0000:0274 06 04

0000:0276 21 00 70
                                                                                       nz, loc_0_26D
loc_0_26C
                                                                                                                                                                   ; clear 256 bytes
; clear 4K bytes
                                                                        ir
                                                                        djnz
                                                                        1d
                                                                                       b, 4
hl, SPRAM_start
                                                                                                                                                                   ; start of sprite RAM
                                                                        ld
0000:0270 21
0000:0279
0000:0279
0000:027A 4F
                                                                                                                                                                   ; CODE XREF: 0000:027F|j
                                          loc_0_279:
                                                                        ld
                                                                                       c, a
0000:027A
0000:027A
0000:027A 77
0000:027B 23
                                          loc_0_27A:
                                                                                                                                                                   ; CODE XREF: 0000:027D-j
                                                                                        (hl), a
                                                                        ld
                                                                                                                                                                   ; zero memory
; next location
                                                                        inc
                                                                                       hl
0000:027C 0D
0000:027D 20 FB
0000:027F 10 F8
0000:0281 06 04
                                                                        dec
                                                                        jr
djnz
                                                                                       nz, loc_0_27A
loc_0_279
                                                                                                                                                                   ; clear 256 bytes
; clear 1K bytes
                                                                        1d
                                                                                       b, 4
0000:0283 3E 10
0000:0285 21 00 74
0000:0288
                                                                        1d
                                                                                           . 10h
                                                                                                                                                                   ; space character
; start of VRAM
                                                                                       hl, VRAM_start
                                                                                                                                                                   ; CODE XREF: 0000:028F}j
0000:0288
                                         loc 0 288:
0000:0288
0000:0288 0E 00
0000:028A
0000:028A
                                                                       ld
                                                                                      c, 0
                                                                                                                                                                   ; CODE XREF: 0000:028D-j
                                          loc 0 28A:
0000:028A 77
                                                                        ld
                                                                                        (hl), a
                                                                                                                                                                   ; clear memory
0000:028B 23
0000:028C 0D
                                                                        inc
                                                                                       hl
                                                                                                                                                                   ; next location
0000:028D 20 FB
0000:028F 10 F7
0000:0291 21 C0 60
0000:0294 06 40
0000:0296 3E FF
                                                                                                                                                                   ; clear 256 bytes ; clear 1K bytes
                                                                                       nz, loc 0 28A
                                                                        jr
                                                                        djnz
ld
ld
                                                                                        loc_0_288
                                                                                       hl, unk_0_60C0
b, 64
a, 0FFh
                                                                                                                                                                   ; fill 64 bytes
; fill byte
                                                                        ld
0000:0298
0000:0298
0000:0298
77
                                                                                                                                                                   ; CODE XREF: 0000:029A j; set to $FF; next location; set 64 bytes
                                          loc_0_298:
                                                                        ld
                                                                                        (hl), a
0000:0299 23
                                                                                       loc_0_298
0000:029A 10 FC
                                                                        djnz
```

0000:0346 0000:0346

0000:0347 0000:0347 0000:0347 0000:0347

0000:0347 21 40 77

; End of function sub\_0\_315

sub 0 347:

SUBROUTINE

; CODE XREF:  $sub_0_315+B^p$ ;  $sub_0_315+26^p$ 

```
hl, 7740h
                                                                     ld
0000:034A A7
                                                                     and
0000:034A A7
0000:034B C8
0000:034C 21 E0 74
0000:034F C9
                                                                                   hl, 74E0h
                                                                     ret
0000:034F
0000:034F
0000:0350
0000:0350
                                        ; End of function sub_0_347
                                        ; SUBROUTINE
0000:0350
0000:0350
0000:0350
0000:0350
0000:0350 3A 2D 62
0000:0353 A7
0000:0354 C0
0000:0355 21 B3 60
0000:0358 3A 0D 60
                                                                                                                                                            ; CODE XREF: 0000:02CA1p
                                        sub_0_350:
                                                                     ld
                                                                                   a, (awarded_bonus_life)
                                                                     and
ret
ld
                                                                                                                                                            ; already got bonus life?
; yes, return
                                                                                   hl, unk_0_60B3
                                                                                   a, (unk_0_600D)
                                                                     ld
0000:035B A7
0000:035C 28 03
0000:035E 21 B6 60
                                                                     and
jr
ld
                                                                                   z, loc_0_361
hl, unk_0_60B6
0000:0361
0000:0361
0000:0361 7E
0000:0362 E6 F0
                                        loc_0_361:
                                                                                                                                                            ; CODE XREF: sub_0_350+C1j
                                                                     ld
                                                                                   a, (hl)
0F0h; '-'
                                                                     and
ld
0000:0362 E6 F0
0000:0364 47
0000:0365 23
0000:0366 7E
0000:0367 E6 0F
                                                                                   b, a
                                                                     inc
ld
                                                                                         (hl)
                                                                                   a,
0Fh
                                                                     and
0000:0367 E0
0000:0369 B0
0000:036A OF
0000:036B OF
0000:036C OF
                                                                     or
                                                                     rrca
                                                                     rrca
0000:036C 0F
0000:036D 0F
0000:036E 21 21 60
0000:0371 BE
0000:0372 D8
0000:0373 3E 01
0000:0375 32 2D 62
0000:0378 21 28 62
                                                                     rrca
ld
                                                                                   hl, bonus_setting (hl)
                                                                                                                                                            ; reached bonus score?
; no, return
                                                                     ср
                                                                     ret
                                                                     1d
                                                                                     (awarded_bonus_life), a
                                                                                                                                                            ; flag that we've got the bonus
                                                                     ld
                                                                                   hl, life_no (hl)
0000:037B 34
                                                                                                                                                            ; extra life
                                                                     inc
0000:037C C3 B8 06
0000:037C
0000:037C
0000:037F
                                                                     jр
                                                                                   display_lives_and_level
                                        ; End of function sub_0_350
 0000:037F
0000:037F
                                                     SUBROUTINE
0000:037F
0000:037F
0000:037F
0000:037F 21 84 63
0000:0382 7E
0000:0383 34
0000:0384 A7
0000:0386 21 81 63
0000:0389 7E
0000:0386 47
0000:0386 47
0000:0386 60 7
                                        sub 0 37F:
                                                                                                                                                           ; CODE XREF: 0000:02DB p
                                                                                   hl, unk_0_6384
a, (hl)
(hl)
                                                                     ld
ld
                                                                     inc
                                                                     and
                                                                     ret
ld
                                                                                   hl, unk_0_6381
                                                                                   a, (hl)
                                                                     ld
ld
                                                                                  o, a
(hl)
                                                                     inc
0000:038E C0
0000:038F 78
0000:0390 OF
0000:0391 OF
                                                                     ret
ld
rrca
                                                                                   nz
a, b
                                                                     rrca
0000:0392 OF
                                                                     rrca
0000:0392 0F
0000:0393 47
0000:0394 3A 29 62
0000:0397 80
0000:0398 FE 05
0000:039A 38 02
0000:039C 3E 05
                                                                     ld
ld
                                                                                   b, a a, (level)
                                                                     add
                                                                                   a, b
5
                                                                     cp
jr
ld
                                                                                    c, loc_0_39E
0000:039E
0000:039E
0000:039E 32 80 63
0000:03A1 C9
                                        loc_0_39E:
                                                                                                                                                          ; CODE XREF: sub_0_37F+1B<sup>†</sup>j
                                                                     ld
                                                                                   (unk_0_6380), a
                                                                     ret
0000:03A1
0000:03A1
0000:03A2
0000:03A2
                                        ; End of function sub_0_37F
                                        ; SUBROUTINE
0000:03A2
0000:03A2
0000:03A2
0000:03A2
0000:03A2 3E 03
0000:03A4 F7
0000:03A5 D7
0000:03A6 3A 50 63
                                        sub_0_3A2:
                                                                                                                                                            ; CODE XREF: 0000:02DE↑p
                                                                                   a, 3
30h
10h
                                                                     ld
                                                                     rst
rst
ld
                                                                                                                                                            ; return if level bit not set
; return if mario not alive
                                                                                   a, (unk_0_6350)
                                                                     rrca
0000:03AA D8
0000:03AB 21 B8 62
0000:03AE 35
0000:03AF C0
                                                                     ret
ld
                                                                                   hl, unk_0_62B8
(hl)
                                                                     dec
                                                                     ret
0000:03B0 36 04
0000:03B2 3A B9 62
0000:03B5 0F
                                                                     ld
ld
                                                                                    (hl),
                                                                                   a, (unk_0_62B9)
                                                                     rrca
0000:03B6 D0
0000:03B7 21 29 6A
0000:03BA 06 40
0000:03BC DD 21 A0 66
                                                                     ret
ld
ld
                                                                                   hl, soft_sprite_ram+129h
b, 40h; '@'
ix, unk_0_66A0
                                                                                                                                                         ; sprite #173, flipy & code
                                                                     ld
0000:03C0 0F
0000:03C1 D2 E4 03
0000:03C4 DD 36 09 02
0000:03C8 DD 36 0A 02
                                                                     rrca
jp
ld
                                                                                   nc, loc_0_3E4
                                                                                    (ix+9), 2
(ix+0Ah), 2
                                                                     1d
                                                                     inc
0000:03CC 04
0000:03CC 04
0000:03CD 04
0000:03CE CD F2 03
0000:03D1 21 BA 62
0000:03D5 C0
0000:03D6 3E 01
0000:03B8 32 B9 62
                                                                     call
ld
                                                                                   sub 0 3F2
                                                                                   hl.
                                                                                          unk_0_62BA
                                                                     dec
ret
                                                                                   (hl)
                                                                     ld
                                                                                   a, 1
(unk_0_62B9), a
                                                                     ld
0000:03DB 32 A0 63
0000:03DE
                                                                                   (unk_0_63A0), a
                                        loc 0 3DE:
                                                                                                                                                           ; CODE XREF: sub 0 3A2+4D-j
0000:03DE
0000:03DE 3E 10
0000:03E0 32 BA 62
0000:03E3 C9
                                                                     ld
ld
                                                                                    a 10h
                                                                                   (unk_0_62BA), a
0000:03E4
0000:03E4
```

```
0000:03E4
                                                                                                                                                                                                          ; CODE XREF: sub_0_3A2+1F<sup>†</sup> j
                                                   loc_0_3E4:
0000:03E4 DD 36 09 02
0000:03E8 DD 36 0A 00
0000:03EC CD F2 03
0000:03EF C3 DE 03
                                                                                                            (ix+9), 2
(ix+0Ah), 0
sub_0_3F2
loc_0_3DE
                                                                                         ld
call
                                                                                          jр
0000:03EF
0000:03EF
0000:03F2
0000:03F2
                                                    ; End of function sub 0 3A2
                                                    ; SUBROUTINE
0000:03F2
0000:03F2
0000:03F2
0000:03F2
0000:03F2 70
                                                                                                                                                                                                          ; CODE XREF: sub_0_3A2+2C\p; sub_0_3A2+4A\p
                                                    sub 0 3F2:
0000:03F2
0000:03F3 3A 19 60
0000:03F6 0F
0000:03F7 D8
                                                                                          1d
                                                                                                            (hl), b
                                                                                          ld
                                                                                                            a, (random_no+1)
                                                                                          rrca
                                                                                          ret
0000:03F8 04
                                                                                                            b
0000:03F8 04
0000:03F9 70
0000:03FA C9
0000:03FA
                                                                                          ld
                                                                                                            (hl), b
                                                                                          ret
                                                    ; End of function sub 0 3F2
0000:03FA
0000:03FB
0000:03FB
                                                                  SUBROUTINE
0000:03FB
0000:03FB
0000:03FB
                                                                                                                                                                                                          ; CODE XREF: 0000:1980|p
                                                    animate_kong_and_pauline:
a, (level_type)
2
                                                                                          1d
                                                                                          ср
                                                                                                                                                                                                          : cement pies?
                                                                                                           nz, loc_0_413
hl, soft_sprite_ram+8
a, (unk_0_63A3)
                                                                                                                                                                                                              no, skip
sprite #2 y coord
                                                                                          jp
ld
                                                                                                                                                                                                              get top conveyer speed/direction
                                                                                          ld
                                                                                                                                                                                                          ; kong location adjustment; add +/-1 to y for 10 sprites; sprite #4, y coord
0000:0409 4F
0000:040A FF
0000:040B 3A 10 69
0000:040E D6 3B
                                                                                          1d
                                                                                                            c, a
38h
                                                                                          rst
ld
                                                                                                           a, (soft_sprite_ram+10h)
59
                                                                                          sub
0000:0410 32 B7 63
0000:0413
0000:0413
                                                                                                            (unk_0_63B7), a
                                                                                          ld
                                                   loc_0_413:
                                                                                                                                                                                                          ; CODE XREF: animate_kong_and_pauline+5<sup>†</sup>j
0000:0413
0000:0413 3A 91 63
0000:0416 A7
0000:0417 C2 26 04
0000:041A 3A 1A 60
0000:041D A7
0000:041E C2 86 04
0000:0421 3E 01
0000:0423 32 91 63
                                                                                          ld
                                                                                                           a, (kong_thrash_flag)
                                                                                          and
jp
ld
                                                                                                                                                                                                          ; thrashing arms?
; yes, continue
                                                                                                            nz, loc_0_426
                                                                                                            a, (gen_purpose_timer)
a
                                                                                          and
                                                                                                                                                                                                          ; expired?
                                                                                                            nz, animate_pauline
                                                                                          jp
ld
                                                                                                                                                                                                          ; no, animate Pauline
; flag thrashing
                                                                                                            (kong_thrash_flag), a
                                                                                          ld
0000:0426
0000:0426 21 90 63
                                                                                                                                                                                                          ; CODE XREF: animate_kong_and_pauline+1C<sup>†</sup>j
                                                    loc_0_426:
0000:0426 21 90 63 0000:0429 34 0000:0428 FE 80 0000:042D CA 64 04 0000:0430 3A 93 63 0000:0431 A7 0000:0431 A7 0000:0431 A7 0000:0431 B7 E000:0438 B7 0000:0438 B7 0000:0448 B7 00000:0448 B7 0000:0448 B7 0000:0448
                                                                                          ld
                                                                                                            hl, kong_thrash_tmr
                                                                                                                                                                                                          ; inc
                                                                                          inc
                                                                                                            (hl)
                                                                                                                                                                                                          ; get timer
; finished thrashing?
; yes, continue
                                                                                                            a, (hl)
128
                                                                                          ld
                                                                                          ср
                                                                                                            z, draw_kong_mouth_closed
                                                                                          jp
ld
                                                                                                            a, (barrel_deployment)
                                                                                          and
jp
ld
                                                                                                                                                                                                          ; deployment in progress?
; yes, skip (no thrashing)
; get timer
                                                                                                            nz, animate_pauline
                                                                                                            a, (hl)
                                                                                         ld
and
jp
ld
                                                                                                            b, a
                                                                                                                                                                                                          ; time to thrash arms?
; no, skip (animate Pauline)
                                                                                                             nz, animate_pauline
                                                                                                                    dk thrash right spr
                                                                                                            hl,
                                                                                                            5, b
nz, do_kong_thrash
hl, dk_thrash_left_spr
                                                                                          bit
                                                                                                                                                                                                          ; left/right depending on timer
0000:0448
0000:0448
                                                   do_kong_thrash:
                                                                                                                                                                                                          ; CODE XREF: animate_kong_and_pauline+48 j
0000:0448 CD 4E 00
0000:044B 3E 03
0000:044D 32 82 60
                                                                                          call
                                                                                                            copy_sprites_2_11_data
                                                                                          ld
                                                                                                            (digital snd tmrs+2), a
                                                                                          1d
0000:0450
0000:0450
0000:0450 3A 27 62
                                                    loc_0_450:
                                                                                                                                                                                                          ; CODE XREF: animate kong and pauline+7A-j
                                                                                          ld
                                                                                                           a, (level_type)
0000:0453 0F
0000:0454 D2 78 04
0000:0457 0F
0000:0458 DA 86 04
                                                                                          rrca
                                                                                                                                                                                                          ; level 2/4?
                                                                                          jp
                                                                                                            nc, loc_0_478
                                                                                                                                                                                                             yes, ski
level 3?
                                                                                          rrca
                                                                                                                , animate pauline
                                                                                          jp
ld
                                                                                                                                                                                                          ; ves. skip
0000:045B 21 0B 69
0000:045E 0E FC
0000:0460 FF
0000:0461 C3 86 04
                                                                                                            hl, soft_sprite_ram+0Bh
c, 0FCh; '3'
                                                                                                                                                                                                          ; sprite #2, x coord
                                                                                          ld
                                                                                                                                                                                                          ; subtract 4 from x for 10 sprites
                                                                                          rst
                                                                                          jр
                                                                                                            animate pauline
0000:0464
0000:0464
0000:0464
                                                   draw kong mouth closed:
                                                                                                                                                                                                          ; CODE XREF: animate kong and pauline+32<sup>†</sup> j
0000:0464 AF
                                                                                          xor
0000:0464 AF
0000:0465 77
0000:0466 23
0000:0467 77
0000:0468 3A 93 63
                                                                                          ld
                                                                                                            (hl), a
                                                                                                                                                                                                          ; zero kong_animation_tmr
                                                                                                            (hl)
                                                                                          ld
ld
                                                                                                            a, (barrel_deployment)
a
0000:0468 3A 93 63

0000:046B A7

0000:046C C2 86 04

0000:046F 21 5C 38

0000:0472 CD 4E 00

0000:0475 C3 50 04

0000:0478

0000:0478
                                                                                          and
                                                                                                                                                                                                          ; deployment in progess?
; no, continue
                                                                                         jp
ld
                                                                                                            nz, animate_pauline
                                                                                                            hl, kong_normal_spr
                                                                                         call
jp
                                                                                                            copy_sprites_2_11_data loc_0_450
0000:0478
0000:0478
0000:0478 21 08 69
0000:047B 0E 44
0000:047D 0F
                                                                                                                                                                                                          ; CODE XREF: animate_kong_and_pauline+59<sup>†</sup>j
; ptr sprite #2 (x coord)
                                                    loc_0_478:
                                                                                         ld
ld
                                                                                                            hl, soft_sprite_ram+8
                                                                                                            c, 44h;
                                                                                                                                                                                                          ; level 2?
; yes, skip
                                                                                          rrca
0000:047E D2 85 04
0000:0481 3A B7 63
0000:0484 4F
                                                                                                            nc, loc_0_485
a, (unk_0_63B7)
                                                                                          ld
                                                                                                            c, a
0000:0485
0000:0485
0000:0485 FF
                                                    loc_0_485:
                                                                                                                                                                                                          ; CODE XREF: animate_kong_and_pauline+83<sup>†</sup>j
; add C to y coord of 10 sprites
0000:0486
                                                                                                                                                                                                          ; CODE XREF: animate_kong_and_pauline+23\uparrow j ; animate_kong_and_pauline+39\uparrow j ...
0000:0486
                                                   animate_pauline:
0000:0486 3A 90 63
0000:0486
                                                                                                            a, (kong_thrash_tmr)
0000:0489 4F
                                                                                          ld
                                                                                                                  a
, 20h ; ' '
0000:048A 11 20 00
0000:048D 3A 27 62
0000:0490 FE 04
                                                                                          ld
ld
                                                                                                            ae, 20h; ' 'a, (level_type)
                                                                                                                                                                                                          ; rivets?
                                                                                          ср
0000:0492 CA BE 04
0000:0495 79
                                                                                                            z, display_help_rivets_level
                                                                                                                                                                                                          ; yes, skip
; kong_thrash_tmr
```

```
finished?
0000:0497 CA A1 04
                                                                   jp
ld
                                                                                 z, wipe_help
                                                                                                                                                         ; yes, skip
; "HELP!"
0000:0497 CA AI 04
0000:049A 3E EF
0000:049C CB 71
0000:049E C2 A3 04
                                                                                                                                                         ; time to display help?
; yes, skip
                                                                                 nz, display_or_wipe_help
                                                                   jр
0000:04A1
0000:04A1
0000:04A1 3E 10
0000:04A3
                                       wipe_help:
                                                                                                                                                        ; CODE XREF: animate_kong_and_pauline+9C<sup>†</sup> j
; blank tiles
                                                                   ld
                                                                                                                                                        ; CODE XREF: animate_kong_and_pauline+A3†j; screen position for HELP!; display/wipe HELP!; sprite #1, flipy & code
                                      display_or_wipe_help:
0000:04A3
0000:04A3 21 C4 75
0000:04A6 CD 14 05
0000:04A9 3A 05 69
                                                                                 hl, VRAM_start+1C4h
display_3_tiles_HL
a, (soft_sprite_ram+5)
                                                                   ld
                                                                   ld
0000:04AC
0000:04AC
0000:04AC 32 05 69
0000:04AC
                                                                                                                                                        ; CODE XREF: animate_kong_and_pauline+F3|j
; animate_kong_and_pauline+10B|j
; sprite #1, flipy & code
                                       make_pauline_run:
                                                                   14
                                                                                 (soft sprite ram+5), a
0000:04AF CB 71
                                                                                 6, c
z
b, a
                                                                   bit
0000:04AF CB
0000:04B1 C8
0000:04B2 47
0000:04B3 79
                                                                   ret
ld
                                                                   1d
                                                                                 a, c
0000:04B3 79
0000:04B4 E6 07
0000:04B6 C0
0000:04B7 78
                                                                                 nz
                                                                                 a, b
3
                                                                                                                                                        ; sprite #1, flipy & code
; toggle sprites 0x11/0x12 pauline running
; sprite #1, flipy & code
                                                                   1d
0000:04B8 EE 03
                                                                   xor
0000:04BA 32 05 69
0000:04BD C9
0000:04BE
                                                                   ld
ret
                                                                                  (soft_sprite_ram+5), a
0000:04BE
0000:04BE
0000:04BE
0000:04BE 3E 10
0000:04C0 21 23 76
0000:04C3 CD 14 05
0000:04C6 21 83 75
0000:04C6 CB 71
                                       display_help_rivets_level:
                                                                                                                                                         ; CODE XREF: animate_kong_and_pauline+97<sup>†</sup>j
                                                                                 a, 10h
hl, VRAM_start+223h
                                                                                                                                                         ; blank tiles
; screen pos
                                                                  ld
ld
                                                                   call
ld
call
                                                                                 display_3_tiles_HL
hl, VRAM_start+183h
display_3_tiles_HL
                                                                                                                                                        ; screen pos
                                                                                6, c
z, loc_0_509
a, (mario_x)
80h; 'C'
                                                                   bit
0000:04CE CA 09 05
0000:04D1 3A 03 62
0000:04D4 FE 80
                                                                   jp
ld
                                                                                                                                                         ; mario left/right side of screen?
                                                                   ср
0000:04D6 D2 F1 04
                                                                                 nc, display_help_right
a. ODFh;
                                                                                                                                                        ; right, skip
; "HELP!" to the left
; screen pos
; display "HELP!"
                                                                   jp
1d
0000:04D0 B2 F1 04
0000:04D9 3E DF
0000:04DB 21 23 76
0000:04DE CD 14 05
                                                                                 hl, VRAM_start+223h
                                                                   ld
                                                                   call
                                                                                 display_3_tiles_HL
0000:04E1
                                                                                                                                                         ; CODE XREF: animate_kong_and_pauline+116|;
; sprite #0, flipy & code
; flipy
0000:04E1
0000:04E1 3A 01 69
                                       display_pauline_left:
                                                                                      (soft_sprite_ram+1)
0000:04E4 F6 80
0000:04E6 32 01 69
0000:04E9 3A 05 69
0000:04EC F6 80
                                                                   or
ld
                                                                                 80h ; 'C'
(soft_sprite_ram+1),
                                                                                                                                                           save
                                                                   ld
                                                                                 a, (soft_sprite_ram+5)
80h; 'Ç'
                                                                                                                                                         ; sprite #1, flipy & code
; flipy
                                                                   or
0000:04EE C3 AC 04
                                                                                 make pauline run
                                                                   jр
0000:04F1
0000:04F1
0000:04F1
                                                                                                                                                         ; CODE XREF: animate_kong_and_pauline+DB<sup>†</sup>j
                                      display_help_right:
                                                                                                                                                        ; "HELP!" to the right
; screen pos
; display "HELP!"
0000:04F1 3E EF
0000:04F3 21 83 75
0000:04F6 CD 14 05
0000:04F9
                                                                   1d
                                                                   14
                                                                                 hl, VRAM_start+183h
display_3_tiles_HL
                                                                   call
0000:04F9
0000:04F9 3A 01 69
0000:04FC E6 7F
0000:04FE 32 01 69
0000:0501 3A 05 69
0000:0504 E6 7F
0000:0506 C3 AC 04
                                                                                                                                                         ; CODE XREF: animate_kong_and_pauline+113|;
; sprite #0, flipy & code
; not flipped
                                       display_pauline_right:
                                                                                 a, (soft_sprite_ram+1)
7Fh; ''
                                                                   ld
and
ld
                                                                                 (soft_sprite_ram+1),
                                                                                                                                                         ; save
; sprite #1, flipy & code
; not flipped
                                                                                 a, (soft_sprite_ram+5)
7Fh; ''
                                                                   ld
                                                                   and
jp
                                                                                 make_pauline_run
0000:0509
0000:0509
0000:0509
0000:0509 3A 03 62
                                       loc_0_509:
                                                                                                                                                        ; CODE XREF: animate_kong_and_pauline+D3<sup>†</sup>j
                                                                   ld
                                                                                      (mario_x)
0000:050C FE 80
0000:050E D2 F9 04
0000:0511 C3 E1 04
0000:0511
                                                                   ср
јр
                                                                                 80h;
                                                                                 nc, display_pauline_right display_pauline_left
                                                                    jр
                                       ; End of function animate_kong_and_pauline
0000:0511
0000:0514
0000:0514
0000:0514
                                       ; SUBROUTINE
0000:0514
0000:0514
0000:0514
0000:0514 06 03
0000:0514
                                       display_3_tiles_HL:
                                                                                                                                                         ; CODE XREF: animate_kong_and_pauline+AB↑p ; animate_kong_and_pauline+C8↑p ...
                                                                   ld
                                                                                 b. 3
                                                                                                                                                         ; 3 tiles
0000:0514
0000:0516
0000:0516
0000:0516 77
0000:0517 19
                                                                                                                                                        ; CODE XREF: display_3_tiles_HL+5|;
; store tile
; next row/column
; prev tile
; loop for 3 tiles
                                       loc_0_516:
                                                                                  (hl), a
                                                                   ld
                                                                                hl, de
                                                                   add
0000:0517 19
0000:0518 3D
0000:0519 10
0000:051B C9
0000:051B
0000:051C
0000:051C
                                                                   djnz
                                       ret
; End of function display_3_tiles_HL
                                      ; SUBROUTINE
0000:0510
0000:051C
0000:051C
0000:051C 4F
                                      sub_0_51C:
                                                                                                                                                         ; 0000:06A5|j
0000:051C 4F
0000:051C
0000:051C
0000:051D CF
                                                                                                                                                         ; DATA XREF:
                                                                                                                                                         ; return if attract mode
                                                                   rst
0000:051E CD 5F 05
                                                                   call
                                                                                 sub 0 55F
0000:051E CD
0000:0521 79
0000:0522 81
0000:0523 81
                                                                   1d
                                                                   add
                                                                                 a, c
0000:0524 4F
                                                                   ld
0000:0524 4F
0000:0525 21 29 35
0000:0528 06 00
0000:052A 09
                                                                   ld
ld
                                                                                 hl, Bonus_Points_Tbl
b, 0
hl, bc
                                                                   add
0000:052B A7
                                                                    and
0000:052C 06 03
0000:052E
                                                                   ld
                                      loc 0 52E:
                                                                                                                                                       ; CODE XREF: sub 0 51C+18-j
0000:052E
0000:052E 1A
0000:052F 8E
0000:0530 27
                                                                   ld
adc
daa
                                                                                 a, (de)
a, (hl)
                                                                                  (de), a
0000:0531 12
                                                                   1d
0000:0532 13
```

nc, loc\_0\_5BD

hl, unk\_0\_60B2 a z, loc\_0\_5AB

hl, unk\_0\_60B5

nz, loc\_0\_5B3 hl, unk\_0\_60B8 ; CODE XREF: sub\_0\_59B+A^jj

af

jр

jp ld

ср

loc\_0\_5AB:

push ld

0000:059B 0000:059D D2 BD 05

0000:05A0 F5 0000:05A1 21 B2 60 0000:05A4 A7 0000:05A5 CA AB 05

0000:05A8 21 B5 60

0000:05AD C2 B3 05 0000:05B0 21 B8 60

0000:05AB 0000:05AB 0000:05AB FE 02

```
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```

```
0000:05B3
0000:05B3
0000:05B3
0000:05B3 AF
0000:05B4 77
0000:05B5 23
0000:05B6 77
                                                                                                                                                   ; CODE XREF: sub 0 59B+121i
                                     loc 0 5B3:
                                                                               (hl), a
                                                                 ld
                                                                               hl
(hl), a
0000:05B6 77
0000:05B7 23
0000:05B8 77
0000:05B9 F1
                                                                 ld
                                                                               h1
                                                                                (hl), <mark>a</mark>
                                                                 ld
                                                                 pop
                                                                               sub 0 5C6
0000:05BA C3 C6 05
                                                                 qr
0000:05BD
0000:05BD
0000:05BD
                                      loc_0_5BD:
                                                                                                                                                    ; CODE XREF: sub_0_59B+2<sup>†</sup>j
0000:05BD 3D
0000:05BD
0000:05BE F5
0000:05BF CD 9B 05
                                                                                                                                                    ; sub_0_59B+29 j
                                                                 push
                                                                               af
                                                                               sub 0 59B
                                                                 call
0000:05BF CD 9B
0000:05C2 F1
0000:05C3 C8
0000:05C4 18 F7
0000:05C4
0000:05C6
0000:05C6
                                                                 pop
ret
                                                                               af
                                                                               z
loc_0_5BD
                                                                 jr
                                      ; End of function sub 0 59B
                                                 SUBROUTINE
0000:0506
0000:05C6
0000:05C6
0000:05C6 FE 03
0000:05C6
                                                                                                                                                    ; CODE XREF: sub_0_59B+1F<sup>†</sup>j; sub_0_5C6+1C<sup>†</sup>p; DATA XREF: ...
                                     sub_0_5C6:
0000:05C6
0000:05C6 CA EO 05
0000:05CB 11 B4 60
0000:05CE A7
0000:05CF CA D5 05
0000:05D2 11 B7 60
                                                                               z, loc_0_5E0
de, unk_0_60B4
                                                                 jp
ld
                                                                 and
jp
ld
                                                                               a
z, loc_0_5D5
de, unk_0_60B7
0000:05D5
0000:05D5
0000:05D5 FE 02
0000:05D7 C2 6B 05
                                      loc_0_5D5:
                                                                                                                                                   ; CODE XREF: sub_0_5C6+9 j
                                                                 ср
                                                                               nz, sub_0_56B
                                                                 jр
0000:05DA
0000:05DA
                                      loc_0_5DA:
                                                                                                                                                    ; CODE XREF: sub 0 51C+401j
0000:05DA 11 BA 60
0000:05DD C3 78 05
                                                                               de, unk_0_60BA
                                                                 ld
                                                                 qŗ
0000:05E0
0000:05E0
0000:05E0
                                                                                                                                                    ; CODE XREF: sub_0_5C6+21j; sub_0_5C6+21|j
                                      loc_0_5E0:
0000:05E0 3D
0000:05E0
0000:05E1 F5
0000:05E2 CD C6 05
0000:05E5 F1
                                                                 dec
                                                                 push
call
                                                                               sub_0_5C6
                                                                 pop
ret
                                                                               af
0000:05E6 C8
0000:05E7 18 F7
0000:05E7
                                     jr loc
; End of function sub_0_5C6
                                                                                loc 0 5E0
0000:05E7
0000:05E9
0000:05E9
0000:05E9
                                                                SUBROUTINE
0000:05E9
0000:05E9
0000:05E9 21 4B 36
0000:05E9
                                                                                                                                                    ; CODE XREF: display_credits+2|p
; display_start_12P_get_selection+18|p
; DATA XREF: ...
                                     print_message_A:
0000:05E9
                                                                 ld
                                                                              hl, message_table
                                                                              a, a
af
0000:05EC 87
0000:05ED F5
                                                                 add
push
                                                                                                                                                    ; convert entry to offset
0000:05EE E6 7F
0000:05F0 5F
0000:05F1 16 00
0000:05F3 19
0000:05F4 5E
                                                                               7Fh ; '
                                                                                                                                                    ; mask off 'wipe' bit
                                                                  and
                                                                 ld
ld
add
                                                                               e, a
d, 0
hl, de
                                                                                                                                                    ; DE = offset ; pointer to entry
                                                                               e, (hl)
hl
                                                                 1d
                                                                 inc
ld
0000:05F5 23
                                                                               d, (hl)
0000:05F3 25
0000:05F6 56
0000:05F7 EB
                                                                                                                                                    ; DE = entry (word)
                                                                 ex
ld
inc
                                                                               de, hl
0000:05F8 5E
0000:05F9 23
0000:05FA 56
0000:05FB 23
                                                                               e, (hl)
hl
                                                                              d, (hl)
                                                                 ld
                                                                                                                                                    ; DE = screen address to print
; HL = message text
                                                                 inc
0000:05FC 01 E0 FF
0000:05FF EB
0000:0600
0000:0600
                                                                               bc, OFFEOh
de, hl
                                                                                                                                                    ; screen column address inc value
; DE = text, HL = screen address
                                                                 1d
                                                                                                                                                    ; CODE XREF: print_message_A+26|j
                                     loc_0_600:
0000:0600 1A
0000:0601
0000:0601
                                                                 ld
                                                                               a, (de)
                                                                                                                                                    ; get message character
                                                                                                                                                    ; DATA XREF: 0000:1275-o
                                      loc_0_601:
0000:0601 FE 3F
                                                                               3Fh ; '?
                                                                 αp
                                                                                                                                                    ; end of message?
0000:0601 FE 3F
0000:0603 CA 26 00
0000:0606 77
0000:0607 FI
0000:0608 30 02
0000:060A 36 10
0000:060C
0000:060C
                                                                                                                                                    ; end of message?
; yes, exit
; display character on screen
; restore original entry index
; not wiping, skip
; display space character on screen
                                                                               z, pop_hl_ret(hl), a
                                                                 jp
ld
                                                                               af
nc, loc_0_60C
                                                                 pop
jr
                                                                 ld
                                                                               (hl), 10h
                                     loc_0_60C:
                                                                                                                                                    ; CODE XREF: print_message_A+1F^j
                                                                 push
inc
add
                                                                                                                                                    i store original entry index
i next message character
i next screen location
i loop through message
0000:060C F5
                                                                               af
0000:060C FS
0000:060D 13
0000:060E 09
0000:060F 18 EF
                                                                               de
hl, bc
loc_0_600
                                                                 ir
0000:060F
0000:060F
0000:0611
                                      ; End of function print_message_A
0000:0611
0000:0611
0000:0611 3A 07 60
0000:0614 0F
0000:0615 D0
                                      display_credits_if_attract_mode:
                                                                                                                                                    ; DATA XREF: 0000:030F1o
                                                                           a, (attract_mode_flag)
                                                                 ld
rrca
                                                                                                                                                    ; in attract mode?
                                                                 ret
                                                                               nc
                                                                                                                                                    ; no, return
0000:0616
0000:0616
                                                                  SUBROUTINE
0000:0616
0000:0616
                                                                                                                                                    ; CODE XREF: display_start_12P_get_selection+1B|p; 0000:141E|p ...
0000:0616
0000:0616 3E 05
                                     {\tt display\_credits:}
0000:0616
                                                                 ld
                                                                                                                                                    ; "credit"
                                                                 call
ld
ld
                                                                               print_message_A
hl, no_of_credits
de, OFFEOh
0000:0618 CD E9 05
0000:0618 21 01 60
0000:061E 11 E0 FF
                                                                                                                                                    ; column address delta
0000:0621 DD 21 BF 74
0000:0625 06 01
                                                                               ix, VRAM_start+OBFh
                                                                                                                                                    ; screen position of credits
                                                                 1d
                                                                                                                                                    ; 1=2 digits
```

```
0000:0627 C3 83 05
                                        jp display_E
; End of function display_credits
                                                                                     display_B_bcd_digit_pairs
0000:0627
0000:0627
0000:062A
0000:062A
0000:062A
0000:062A A7
0000:062B A7
0000:062B 3A 8C 63
0000:0631 A7
0000:0632 C2 A8 06
0000:0635 3A B8 63
0000:0638 A7
                                                                                                                                                               ; DATA XREF: 0000:0311\dagger
                                        loc_0_62A:
                                                                                     z, loc_0_691
a, (bonus_timer)
                                                                      jp
ld
                                                                       and
                                                                                                                                                                ; zero?
                                                                                                                                                                ; no, skip
                                                                       jp
ld
                                                                                     nz, loc_0_6A8
a, (unk_0_63B8)
                                                                       and
0000:0639 C0
0000:063A 3A B0 62
0000:063D 01 0A 00
0000:0640
                                                                                     nz
a, (unk_0_62B0)
bc, 0Ah
                                                                       ret
ld
                                                                       ld
0000:0640
                                        loc_0_640:
                                                                                                                                                               ; CODE XREF: 0000:0642-i
0000:0640 04
0000:0641 91
                                                                       inc
                                                                       sub
0000:0642 C2 40 06
                                                                       jp
ld
                                                                                     nz, loc_0_640
a, b
0000:0645 78
0000:0646 07
0000:0647 07
                                                                       rlca
0000:0648 07
                                                                       rlca
0000:0648 07
0000:0649 07
0000:064A 32 8C 63
0000:065D 21 4A 38
0000:0650 3 3E 06
0000:0655 0000:0655
                                                                       rlca
ld
                                                                                                                                                                ; set initial bonus timer value
                                                                                      (bonus_timer),
                                                                                     hl, bonus_graphic_tiles
de, VRAM_start+65h
a, 6
                                                                       1d
                                                                                                                                                                ; screen position for bonus
; 6 columns of tiles to display
                                                                       14
                                                                       ld
                                        loc_0_655:
                                                                                                                                                                ; CODE XREF: 0000:0664|j
0000:0655 DD 21 1D 00
0000:0659 01 03 00
0000:065C ED B0
0000:065E DD 19
                                                                                     ix, 1Dh
bc, 3
                                                                                                                                                                ; column inc
; 3 tiles to display
; display bonus tiles
; next column
                                                                       1d
                                                                       ld
ldir
                                                                                     ix, de
                                                                       add
0000:065E DD 19
0000:0660 DD E5
0000:0662 D1
0000:0663 3D
0000:0664 C2 55 06
0000:0667 3A 8C 63
0000:066A
                                                                      push
pop
                                                                                     ix
de
                                                                                                                                                               ; screen position
; done?
                                                                                                                                                                ; no, loop
                                                                       jp
ld
                                                                                     nz. loc 0 655
                                                                                     a, (bonus_timer)
                                        loc 0 66A:
                                                                                                                                                               ; CODE XREF: 0000:06B5|j
0000:066A 4F
                                                                       ld
0000:066H E6 OF
0000:066D 47
0000:066E 79
                                                                                     0Fh
b, a
                                                                       and
ld
                                                                                                                                                                ; B=low nibble
                                                                       1d
                                                                                     a, c
                                                                      rrca
rrca
rrca
0000:066F 0F
0000:066F 0F
0000:0670 0F
0000:0671 0F
0000:0672 0F
0000:0673 E6 0F
0000:0675 C2 89 06
0000:0678 3E 03
                                                                      rrca
and
jp
ld
                                                                                                                                                                ; C=high nibble
; skip if more than 9s left
                                                                                     nz, display_bonus_digits
0000:0678 3E 03
0000:067A 32 89 60
0000:067D 3E 70
0000:067F 32 86 74
0000:0682 32 A6 74
                                                                                     (unk_0_6089), a
                                                                      ld
ld
ld
ld
                                                                                                                                                                ; purple '0'
; '0'
; '0'
                                                                                     a, 70h; 'p'
(VRAM_start+86h), a
(VRAM_start+0A6h), a
0000:0685 80
0000:0686 47
0000:0687 3E 10
0000:0689
                                                                      add
ld
ld
                                                                                     a, b
b, a
a, 10h
                                                                                                                                                                ; 2nd digit to 'ascii'
                                                                                                                                                                ; store
; <space>
0000:0689
                                        display_bonus_digits:
                                                                                                                                                                ; CODE XREF: 0000:0675<sup>†</sup>j
0000:0689 32 E6 74
0000:068C 78
0000:068D 32 C6 74
0000:069D C9
0000:0691
0000:0691
                                                                                                                                                               ; display 1st digit
; restore 2nd digit
; display 2nd digit
                                                                      ld
ld
                                                                                     (VRAM_start+0E6h), a
                                                                                     (VRAM_start+0C6h), a
                                                                       ld
                                                                                                                                                               ; CODE XREF: 0000:062B11
0000:0691
                                        loc_0_691:
0000:0691 3A 8C 63
0000:0694 47
0000:0695 E6 0F
0000:0697 C5
0000:0698 CD 1C 05
0000:0698 C1
0000:0698 C78
                                                                                     a, (bonus_timer)
b, a
0Fh
                                                                       ld
                                                                       and
                                                                      push
call
                                                                                     bc
                                                                                      sub_0_51C
                                                                       pop
ld
                                                                                     bc
a, b
                                                                       rrca
rrca
0000:069D OF
0000:069E
0000:069F
                                                                       rrca
                                                                                     0Fh
0Ah
0000:06A0 OF
                                                                       rrca
0000:06A1 E6 OF
0000:06A3 C6 OA
0000:06A5 C3 1C 05
                                                                       add
                                                                                     sub_0_51C
                                                                       qŗ
0000:06A8
0000:06A8
0000:06A8
0000:06A8
0000:06A8 D6 01
0000:06A0 20 05
0000:06AC 21 B8 63
0000:06B1
                                                                                                                                                               ; CODE XREF: 0000:0632<sup>†</sup>j
                                         loc_0_6A8:
                                                                       sub
                                                                                     nz, loc_0_6B1
hl, unk_0_63B8
(hl), 1
                                                                       jr
ld
                                                                       ld
0000:06B1
                                        loc_0_6B1:
                                                                                                                                                                ; CODE XREF: 0000:06AA1i
0000:06B1 27
0000:06B2 32 8C 63
0000:06B5 C3 6A 06
                                                                       daa
                                                                       ld
                                                                                     (bonus_timer), a loc_0_66A
                                                                       jр
0000:06B8
0000:06B8
0000:06B8
                                                                     SUBROUTINE
0000:06B8
0000:06B8
0000:06B8 4F
0000:06B8
                                                                                                                                                                  CODE XREF: 0000:01DC1p
                                        display_lives_and_level:
                                                                                                                                                                   sub_0_350+2C1j
                                                                                                                                                                   DATA XREF: ... store number of lives
0000:06B8
                                                                       ld
                                                                                     c, a
8
0000:06B9 CF
0000:06BA 06 06
0000:06BC 11 E0 FF
0000:06BC 21 83 77
0000:06C2
                                                                                                                                                                   return if attract mode max icons
                                                                                     b, 6
                                                                                     de, OFFEOh
hl, VRAM_start+383h
                                                                                                                                                                ; column delta
                                                                       ld
                                                                       ld
                                         loc_0_6C2:
                                                                                                                                                                ; CODE XREF: display_lives_and_level+D|j
0000:06C2
0000:06C2 36 10
0000:06C4 19
0000:06C5 10 FB
0000:06C7 3A 28 62
                                                                                    (hl), 10h
hl, de
loc_0_6C2
a, (life_no)
                                                                                                                                                               ; <space>
; next column
; wipe 6 icons
                                                                       ld
                                                                       add
                                                                      djnz
ld
                                                                                                                                                               ; HUH???
0000:06CA 91
                                                                       sub
0000:06CB CA D7 06
                                                                                     z, loc_0_6D7
```

```
0000:06CE 47
                                                                                                                                                                            ; number of lives
; screen location
                                                                                           b, a
hl, VRAM_start+383h
0000:06CF 21 83 77
                                                                            ld
0000:06D2
0000:06D2
0000:06D2 36 FF
                                                                                                                                                                           ; CODE XREF: display_lives_and_level+lD|;
; mario icon
                                           loc_0_6D2:
                                                                                            (hl), OFFh
                                                                                                                                                                           ; next screen location
; loop for no. of lives
                                                                                           hl, de
loc_0_6D2
0000:06D4 19
                                                                            add
0000:06D5 10 FB
0000:06D7
0000:06D7
                                                                            djnz
                                            loc_0_6D7:
                                                                                                                                                                           ; CODE XREF: display_lives_and_level+13<sup>†</sup>j
0000:06D7
0000:06D7 21 03 75
0000:06DA 36 1C
0000:06DC 21 E3 74
0000:06DF 36 34
                                                                                           hl, VRAM_start+103h (hl), 1Ch
hl, VRAM_start+0E3h (hl), 34h; '4'
                                                                            ld
                                                                            ld
ld
                                                                                                                                                                            7 'L'
                                                                                                                                                                            i 1 = 1
                                                                            ld
                                                                                            a, (level)
100
c, loc_0_6ED
0000:06E1 3A 29 62
0000:06E4 FE 64
0000:06E6 38 05
0000:06E8 3E 63
                                                                            ld
                                                                                                                                                                            ; too high?
                                                                            ср
                                                                                                                                                                            ; no, skip
; max out at 99
                                                                            jr
ld
0000:06EA 32 29 62
0000:06ED
0000:06ED
                                                                                            (level), a
                                                                            ld
                                                                                                                                                                            ; adjust
                                           loc_0_6ED:
                                                                                                                                                                            ; CODE XREF: display_lives_and_level+2E^j
0000:06ED 01 0A FF
                                                                           ld
                                                                                           bc. 0FF0Ah
0000:06ED 01
0000:06F0
0000:06F0
0000:06F0 04
                                            loc_0_6F0:
                                                                                                                                                                            ; CODE XREF: display_lives_and_level+3A|j
                                                                                           b
0000:06F1 91
                                                                            sub
0000:06F1 91
0000:06F2 D2 F0 06
0000:06F5 81
0000:06F6 32 A3 74
0000:06F9 78
0000:06FA 32 C3 74
0000:06FD C9
                                                                            jp
add
                                                                                            nc, loc_0_6F0
                                                                                                                                                                           ; level tens digit
                                                                                            (VRAM_start+0A3h), a
                                                                            ld
                                                                            14
                                                                                                                                                                            ; level units digit
                                                                            ld
                                                                                            (VRAM_start+0C3h), a
                                                                            ret
                                            ; End of function display_lives_and_level
0000:06FD
0000:06FE
0000:06FE
                                                                                                                                                                            ; DATA XREF: 0000:00D0 o
0000:06FE
                                            vector_on_ingame_sequencer:
0000:06FE 3A 0A 60
0000:0701 EF
0000:0701
                                                                                       a, (main_sequencer)
28h
                                                                           1d
                                                                            .dw loc_0_986

.dw loc_0_9AB

.dw loc_0_9D6

.dw loc_0_9FE

.dw display_p2_screen?

.dw display_p1_screen?

.dw wait
0000:0702 86 09
                                                                                                                                                                            ; Jump table
0000:0702 80 09
0000:0704 AB 09
0000:0706 D6 09
0000:0708 FE 09
0000:070A 1B 0A
0000:070C 37 0A
0000:070E 63 0A
                                                                            .dw do_intro_sequence
.dw draw_how_high_can_you_get
0000:0710
0000:0712 DA 0E
0000:0712 DA 0B
0000:0714 00 00
0000:0716 91 0C
0000:0718 3C 12
0000:071A 7A 19
0000:071C 7C 12
0000:071E F2 12
                                                                            .dw draw_now_nigh_can_you_get
.dw 0
.dw do_how_high_can_you_get
                                                                           .dw do_how_high_can_you_get
.dw start_gameplay
.dw gameplay
.dw died_in_gameplay
.dw copy_current_lv1_data_to_P1
.dw copy_current_lv1_data_to_P2
.dw p1_game_over
.dw p2_game_over
.dw loc_0_13AA
.dw loc_0_13BB
.dw draw_name_registered
.dw do_initials_entry
.dw mario pauline reunion
0000:0720 44
0000:0722 8F
0000:0724 A1
0000:0722 or
0000:0724 A1
0000:0726 AA
0000:0728 BB
0000:072A 1E
0000:072C 86
0000:072E 15
                                                                            .dw mario_pauline_reunion
.dw loc_0_196B
0000:0730 6B
0000:0730 6B 19
0000:0732 00 00
0000:0734 00 00
0000:0736 00 00
0000:0738 00 00
0000:073C 00
                                                                             .dw
                                                                             dw
0000:073C
0000:0730
                                            vector_on_main_sequencer:
                                                                                                                                                                           ; DATA XREF: 0000:00CC1o
0000:073C 21 0A 60
0000:073C 3A 01 60
0000:073F 3A 01 60
0000:0742 A7
0000:0743 C2 5C 07
0000:0746 7E
                                                                           ld
ld
                                                                                          hl, main_sequencer
a, (no_of_credits)
                                                                                                                                                                            ; any credits?
; yes, skip
                                                                            and
                                                                            jp
ld
                                                                                            nz, inc_nmi_sequencer
                                                                                           a, (hl)
28h
                                                                            rst
                                                                                                                                                                            ; go!
0000:0747
0000:0747

0000:0748 79 07

0000:074A 63 07

0000:074C 3C 12

0000:074E 77 19

0000:0750 7C 12

0000:0752 C3 07
                                                                             .dw insert_coin_screen
                                                                                                                                                                            ; Jump Table (game sequencer)
                                                                             .dw init_attract_mode
                                                                             .dw start gameplay
                                                                            dw attract_mode_gameplay
.dw died_in_gameplay
.dw switch_to_title_screen
.dw title_screen_flash
0000:0754 CB 07
                                                                            .dw title_screen_no_flash
.dw 0
.dw 0
0000:075A 00 00
0000:075C
0000:075C
0000:075C
0000:075C 36 00
                                                                                                                                                                                CODE XREF: 0000:0743 j
                                            inc_nmi_sequencer:
                                                                                            (hl),
                                                                            ld
                                                                                                                                                                            ; reset game sequencer
0000:075E 21 05 60
0000:0761 34
0000:0762 C9
0000:0763
                                                                            1d
                                                                                           hl, nmi_sequencer (hl)
                                                                                                                                                                            ; inc nmi_sequencer
                                                                            ret
0000:0763
0000:0763
0000:0763 E7
0000:0764 AF
                                                                                                                                                                            ; DATA XREF: 0000:074A\u00e1o
; wait for 16-bit countdown
                                            init_attract_mode:
                                                                                            20h
                                                                           rst
                                                                            xor
0000:0764 AF
0000:0765 32 92 63
0000:0768 32 A0 63
0000:076B 3E 01
0000:076D 32 27 62
0000:0770 32 29 62
0000:0773 32 28 62
0000:0776 C3 92 0C
                                                                           ld
ld
ld
                                                                                            (unk_0_6392), a
(unk_0_63A0), a
                                                                                           a, 1 (level_type), a
                                                                            ld
                                                                            ld
ld
                                                                                           (level), a
(life_no), a
loc_0_C92
                                                                            jр
0000:0779
                                            insert_coin_screen:
                                                                                                                                                                            ; DATA XREF: 0000:0748 o
0000:0779 21 86 7D
                                                                                           hl, palette_bank
(hl), 0
                                                                            1d
0000:0776 36 00
0000:077E 23
0000:077F 36 00
0000:0781 11 1B 03
0000:0784 CD 9F 30
                                                                           ld
inc
ld
                                                                                           hl (hl), 0
                                                                                                                                                                            ; palette bank = 0
                                                                            1d
                                                                            call
                                                                                            sub_0_309F
```

```
sub_0_309F
sub_0_965
hl, eight_bit_countdown
(hl), 2
0000:0788 CD 9F 30
0000:0788 CD 9F 30
0000:078B CD 65 09
0000:078E 21 09 60
0000:0791 36 02
0000:0793 33
0000:0794 34
0000:0798 CD 74 08
0000:0798 D 53 0A
                                                                           call
                                                                           call
ld
ld
                                                                           inc
                                                                                           hl
                                                                                                                                                                           ; main_sequencer
                                                                                           (h1)
                                                                                                                                                                          ; next sequence (1)
                                                                                           clear_visible_area_and_sprites
display_1UP
                                                                           call
                                                                           call
0000:0798 CD 53 0A
0000:079B 3A 0F 60
0000:079E FE 01
0000:07AD CC EE 09
0000:07AA ED 5B 22 60
0000:07AA CD AD 07
0000:07AD
0000:07AD
                                                                                           a, (two_players)
                                                                           ld
                                                                           cp
call
                                                                                                                                                                          ; last game 2P?
; yes, display 2UP
                                                                                           z, display_2UP
                                                                                           de, (coinage)
hl, VRAM_start+16Ch
                                                                           ld
                                                                           1d
                                                                           call
                                                                                           loc_0_7AD
                                           loc 0 7AD:
0000:07AD 73
                                                                           ld
                                                                                           (hl), e
0000:07AD 73
0000:07AE 23
0000:07AF 23
0000:07BD 72
0000:07B1 7A
0000:07B2 D6 0A
0000:07B4 C2 BC 07
                                                                           inc
                                                                                           hl
hl
                                                                           1d
                                                                                           (hl), d
                                                                           ld
sub
                                                                                           a, d
0Ah
                                                                                           nz, loc_0_7BC (hl), a
                                                                           jp
ld
0000:07B7 77
0000:07B8 3C
0000:07B9 32 8E 75
0000:07BC
0000:07BC
0000:07BC 11 01 02
0000:07BF 21 8C 76
0000:07C2 C9
                                                                                           (VRAM_start+18Eh), a
                                            loc_0_7BC:
                                                                                                                                                                          ; CODE XREF: 0000:07B41i
                                                                                           de, 201h
hl, VRAM_start+28Ch
                                                                           ld
                                                                           ld
                                                                           ret
0000:07C3
0000:07C3
0000:07C3
0000:07C3
0000:07C3 CD 74 08
0000:07C6 21 0A 60
0000:07C9 34
                                            switch_to_title_screen:
                                                                                                                                                                          ; DATA XREF: 0000:0752\dagger
                                                                                           clear visible area and sprites
                                                                           call
                                                                           ld
inc
                                                                                           hl, main_sequencer (hl)
                                                                           ret
0000:07CB
0000:07CB
0000:07CB
0000:07CB 3A 8A 63
0000:07CE FE 00
0000:07D0 C2 2D 08
0000:07D3 3E 60
0000:07D5 32 8A 63
                                                                                                                                                                           ; DATA XREF: 0000:0754\u00e10
                                            title_screen_flash:
                                                                                           a, (unk_0_638A)
                                                                           ld
                                                                           cp
jp
ld
                                                                                           nz, loc_0_82D
a, 60h; '`'
(unk_0_638A), a
c, 5Fh; '_'
                                                                           ld
0000:07D8 0E 5F
                                                                           14
0000:07D8 0E 5F

0000:07DA

0000:07DA

0000:07DA FE 00

0000:07DC CA 3B 08

0000:07DF 21 86 7D

0000:07E2 36 00
                                            loc_0_7DA:
                                                                                                                                                                          ; CODE XREF: 0000:0838/j
                                                                           ср
                                                                           jp
ld
ld
                                                                                           z, loc_0_83B
                                                                                           hl, palette_bank (hl), 0
0000:07E4 79
                                                                           1d
0000:07E4 79
0000:07E5 CB 07
0000:07E7 30 02
0000:07E9 36 01
                                                                           rlc
                                                                                           nc, loc_0_7EB (hl), 1
                                                                           jr
ld
0000:07EB
0000:07EB
0000:07EB 23
0000:07EC 36 00
                                            loc_0_7EB:
                                                                                                                                                                         ; CODE XREF: 0000:07E71j
                                                                                           (hl), 0
                                                                           ld
0000:07EC 36 00
0000:07EE CB 07
0000:07F0 30 02
0000:07F2 36 01
0000:07F4
0000:07F4 32 8B 63
0000:07F7 12 08 3D
                                                                           rlc
                                                                                           nc, loc_0_7F4 (hl), 1
                                            loc_0_7F4:
                                                                                                                                                                          ; CODE XREF: 0000:07F01i
                                                                                           (unk_0_638B), a hl, title_screen
                                                                           ld
0000:07FA
0000:07FA
0000:07FA 3E B0
0000:07FC 46
                                            display_donkey_kong_title:
                                                                                                                                                                          ; CODE XREF: 0000:0809/j
                                                                           ld
ld
                                                                                           a, 0B0h ; '"
                                                                                                                                                                           ; get number of tiles to display
                                                                                           b, (hl)
0000:07FC 40
0000:07FD 23
0000:07FE 5E
0000:07FF 23
0000:0800 56
                                                                                           hl
                                                                                           e, (hl)
hl
                                                                           ld
                                                                                           d, (hl)
                                                                                                                                                                          ; DE = screen address
                                                                           ld
0000:0800 56
0000:0801
0000:0801 12
0000:0802 13
0000:0803 10 FC
0000:0805 23
0000:0806 7E
0000:0807 FE 00
                                                                                                                                                                          ; CODE XREF: 0000:0803|j
; display character
; next line
                                           loc_0_801:
                                                                           ld
                                                                                           (de), a
                                                                           inc
                                                                                           de
                                                                           djnz
inc
ld
                                                                                                                                                                           ; loop
; next entry
                                                                                           loc_0_801
                                                                                          a, (hl)
                                                                                                                                                                          ; get entry byte ; done?
                                                                           cp
jp
ld
                                                                                           nz, display_donkey_kong_title de, 31Eh
0000:0807 FE 00
0000:0809 C2 FA 07
0000:080C 11 1E 03
0000:080F CD 9F 30
0000:0812 13
0000:0813 CD 9F 30
0000:0816 21 CF 39
0000:0816 CD 4E 00
                                                                                                                                                                           ; no, loop
                                                                                           sub_0_309F
de
                                                                           call
                                                                                          sub_0_309F
hl, dk_thrash_right_spr
copy_sprites_2_11_data
sub_0_3F24
                                                                           call
ld
call
0000:081C CD 24 3F
0000:081F 00
0000:0820 21 08 69
0000:0823 0E 44
                                                                           call
nop
ld
ld
                                                                                           hl, soft_sprite_ram+8
c, 68
38h
hl soft_sprite_ram+0
                                                                                                                                                                          ; sprite #2, y coord
0000:0825 FF
0000:0826 FF
0000:0826 21 0B 69
0000:0829 0E 78
0000:082B FF
                                                                           rst
ld
ld
                                                                                                                                                                          ; add 68 to y coord for 10 sprites
; sprite #2, x coord
                                                                                           hl, soft_sprite_ram+0Bh c, 120
                                                                                           c, ]
38h
                                                                           rst
                                                                                                                                                                          ; add 120 to xs coord for 10 sprites
0000:082C C9
0000:082D
0000:082D
0000:082D
0000:082D 3A 8B 63
0000:0831 4F
0000:0831 3A 8A 63
0000:0834 3D
0000:0838 32 8A 63
0000:0838 32 8A 63
                                                                                                                                                                          ; CODE XREF: 0000:07D01i
                                            loc_0_82D:
                                                                           ld
ld
                                                                                           a, (unk_0_638B)
                                                                                           a, (unk_0_638A)
                                                                           ld
                                                                           ld
                                                                                           (unk_0_638A), a
loc_0_7DA
                                                                           jр
0000:083B
0000:083B
0000:083B
0000:083B 21 09 60
                                            loc_0_83B:
                                                                                                                                                                           ; CODE XREF: 0000:07DCfj
                                                                           ld
                                                                                           hl, eight_bit_countdown
0000:083E 36 02
0000:0840 23
                                                                           1d
                                                                                           (hl), 2
                                                                                           hl
                                                                                                                                                                          ; game_sequencer
```

```
(hl)
0000:0842 21 8A 63
0000:0845 36 00
0000:0847 23
0000:0848 36 00
                                                                           hl, unk_0_638A
(hl), 0
hl
(hl), 0
                                                              1d
                                                              ld
                                                              inc
0000:084A C9
0000:084B
0000:084B
0000:084B
                                                              ret
                                    title_screen_no_flash:
                                                                                                                                             ; DATA XREF: 0000:0756†o
0000:084B E7
0000:084C 21 0A 60
0000:084F 36 00
0000:0851 C9
                                                              rst
ld
ld
                                                                                                                                             ; wait for 16-bit countdown
                                                                           hl, main_sequencer (hl), 0
                                                                                                                                             ; reset game sequencer
                                                              ret
0000:0852
0000:0852
0000:0852
                                                              SUBROUTINE
0000:0852
0000:0852
0000:0852
0000:0852 21 00 74
0000:0852
                                                                                                                                             ; CODE XREF: 0000:0986 p; 0000:196B p
                                    clear_tiles_and_sprites:
                                                              ld
                                                                           hl, VRAM_start
0000:0855 OE 04
                                                              ld
                                                                                                                                             ; 4x256 bytes to clear
0000:0857
0000:0857
0000:0857
0000:0857 06 00
                                    loc_0_857:
                                                                                                                                             ; CODE XREF: clear_tiles_and_sprites+E|j
                                                              ld
                                                                           b, 0
                                                                                                                                             ; 256 bytes to clear
; space character
                                                                           a, 10h
0000:0859 3E 10
                                                              ld
0000:085B
0000:085B
                                                                                                                                             ; CODE XREF: clear_tiles_and_sprites+B|j
                                    loc_0_85B:
0000:085B 77
0000:085C 23
0000:085D 10 FC
0000:085F 0D
0000:0860 C2 57 08
                                                              ld
                                                                           (hl), a
                                                                                                                                             ; display space
                                                              djnz
                                                                           loc_0_85B
                                                                                                                                             ; clear 256 bytes
                                                              dec
jp
ld
                                                                           nz, loc_0_857
                                                                                                                                            ; do 1024 bytes
0000:0863 21 00 69
0000:0866 0E 02
0000:0868
0000:0868
                                                                           hl, soft_sprite_ram
c, 2
                                                                                                                                             ; 2x192 bytes to clear
                                                                                                                                             ; CODE XREF: clear_tiles_and_sprites+lE|j; 192 bytes to clear
                                    loc 0 868:
0000:0868 06 C0
0000:086A AF
0000:086B
0000:086B
                                                              1d
                                                                           b, 192
                                                                                                                                            ; CODE XREF: clear_tiles_and_sprites+1B|j; clear soft sprite ram byte; next address; clear 192 bytes
                                    loc 0 86B:
0000:086B 77
0000:086C 23
0000:086D 10 FC
                                                              1d
                                                                           (hl), a
                                                                           loc_0_86B
                                                              djnz
0000:086F 0D
0000:0870 C2 68 08
0000:0873 C9
0000:0873
                                                              jp
ret
                                                                           nz, loc_0_868
                                                                                                                                             ; clear 384 bytes
                                    ; End of function clear tiles and sprites
0000:0873
0000:0873
0000:0874
0000:0874
0000:0874
0000:0874
0000:0874
0000:0874
21 04 74
                                                            SUBROUTINE
                                    clear_visible_area_and_sprites:
                                                                                                                                             ; CODE XREF: 0000:01C3<sup>p</sup>; 0000:0795<sup>p</sup>...
                                                              1d
                                                                           hl, VRAM_start+4
0000:0874
0000:0877 OE 20
0000:0879
0000:0879
                                                              ld
                                                                                                                                             ; 32 columns
                                                                                                                                             ; CODE XREF: clear_visible_area_and_sprites+12|j
                                    loc_0_879:
0000:0879 06 1C
0000:087B 3E 10
0000:087D 11 04 00
0000:0880
                                                                           b, 28
a, 10h
de, 4
                                                              1d
                                                                                                                                             ; 28 rows
                                                                                                                                             // 26 fows
// <space>
// bottm-to-top next column increment
                                                                                                                                             ; CODE XREF: clear_visible_area_and_sprites+E|j
; display space character
; next line
0000:0880
                                    loc 0 880:
0000:0880 77
0000:0881 23
0000:0882 10 FC
0000:0884 19
0000:0885 0D
0000:0886 C2 79 08
                                                                           (hl), a
                                                                           loc_0_880
hl, de
                                                                                                                                             ; loop screen height
; next column
                                                              djnz
                                                              add
dec
jp
ld
                                                                                                                                             ; done all columns?
; no, loop
                                                                           nz, loc_0_879
0000:0889 21 22 75
0000:088C 11 20 00
0000:088F 0E 02
0000:0891 3E 10
                                                                           hl, VRAM_start+122h
de, 32
c, 2
a, 10h
                                                              ld
ld
                                                                                                                                             ; <space>
                                                              ld
0000:0893
0000:0893
0000:0893 06 0E
0000:0895
                                                                                                                                             ; CODE XREF: clear_visible_area_and_sprites+29|j; 14 columns
                                    loc_0_893:
                                                              ld
                                                                           b, 14
0000:0895
0000:0895 77
0000:0896 19
0000:0897 10 FC
0000:0899 21 23 75
0000:0890 0D
0000:0890 02 93 08
                                                                                                                                            ; CODE XREF: clear_visible_area_and_sprites+23|; display space character; next column; next column;
                                    loc_0_895:
                                                                           (hl), a
hl, de
loc_0_895
                                                              ld
                                                              add
                                                              dinz
                                                              ld
dec
                                                                           hl,
                                                                                 VRAM_start+123h
                                                                           nz, loc_0_893
                                                                                                                                            ; repeat at new location
                                                              jp
ld
0000:08A0 21 00 69
0000:08A3 06 00
0000:08A5 3E 00
                                                                           hl, soft_sprite_ram
b, 0
a, 0
                                                              ld
ld
                                                                                                                                             ; 256 bytes to clear ; clear to 0x00
0000:08A7
0000:08A7
                                                                                                                                            ; CODE XREF: clear_visible_area_and_sprites+35|j; clear soft sprite ram byte; next location; do 256 bytes
                                    loc 0 8A7:
0000:08A7 77
0000:08A8 23
0000:08A9 10 FC
                                                              ld
                                                                            (hl), a
                                                                            loc_0_8A7
                                                              djnz
0000:08AB 06 80
0000:08AD
0000:08AD
0000:08AD 77
                                                              1d
                                                                           b, 128
                                                                                                                                             ; 128 bytes to clear
                                                                                                                                            ; CODE XREF: clear_visible_area_and_sprites+3B|;
; clear soft sprite ram byte
; next location
; clear 128 bytes
                                    loc_0_8AD:
                                                                           (hl), a
                                                              ld
0000:08AE 23
0000:08AF 10 FC
0000:08B1 C9
0000:08B1
                                                              djnz
                                                                           loc_0_8AD
                                                              ret
                                    ; End of function clear_visible_area_and_sprites
0000:08B1
0000:08B2
                                                                                                                                             ; DATA XREF: 0000:00CE10
0000:08B2
                                    vector_on_credit_sequencer:
0000:08B2 3A 0A 60
0000:08B5 EF
                                                                           a, (main_sequencer)
28h
                                                                                                                                             ; go!
0000:08B5
0000:08B6 BA 08
                                                               .dw loc 0 8BA
                                                                                                                                             ; jump table
0000:08B8 F8 08
0000:08BA
                                                               .dw display_start_12P_init_???
0000:08BA
 0000:08BA
                                    loc_0_8BA:
                                                                                                                                             ; DATA XREF: 0000:08B61o
0000:08BA CD 74 08
0000:08BD AF
0000:08BE 32 07 60
0000:08C1 11 0C 03
                                                              call
                                                                           clear_visible_area_and_sprites
                                                              xor
                                                                            (attract mode flag), a
                                                              1d
                                                                                                                                            ; clear attract mode flag
                                                              ld
```

```
.dw level_seq_1
0000:0961 01 00 00 00
0000:0965
0000:0965
                                                                 .db 1, 0, 0,
                                                               SUBROUTINE II
0000:0965
0000:0965
0000:0965
0000:0965 11 00 04
                                                                                                                                                  ; CODE XREF: 0000:078B<sup>†</sup>p; 0000:08CB<sup>†</sup>p
                                     sub_0_965:
0000:0965 11 00 04
0000:0965 0000:0968 CD 9F 30
0000:096B 11 14 03
0000:096E 06 06
0000:0970
                                                                 ld
                                                                              de, 400h
                                                                 call
ld
                                                                             sub_0_309F
de, 314h
b, 6
                                                                1d
0000:0970
0000:0970 CD 9F 30
0000:0973 1C
0000:0974 10 FA
0000:0976 C9
0000:0976
                                     loc_0_970:
                                                                                                                                                 ; CODE XREF: sub_0_965+F|j
                                                                 call
                                                                              sub_0_309F
                                                                 dinz
                                                                              loc_0_970
                                     ret; End of function sub_0_965
```

0000:0976 0000:0977

```
0000:0977
                                                            SUBROUTINE
0000:0977
0000:0977
0000:0977
0000:0977
0000:0977 21 01 60
0000:0977
0000:097A 3E 99
0000:097C 86
0000:097D 27
0000:097E 77
                                                                                                                                                                                    ; CODE XREF: 0000:0906 p; 0000:0919 p ...
                                              dec_credits_and_???:
                                                                                ld
                                                                                               hl, no_of_credits
a, 99h; 'Ö'
a, (hl)
                                                                                14
                                                                                                                                                                                    ; decrement credits
                                                                                daa
                                                                                                (hl), a
de, 400h
                                                                                ld
                                                                                                                                                                                    ; save
0000:097F 11 00 04
0000:0982 CD 9F 30
0000:0985 C9
                                                                                ld
                                                                                                de, 400h
sub_0_309F
                                                                                call
                                                                               ret
0000:0985
0000:0985
0000:0986
                                               ; End of function dec_credits_and_???
0000:0986
0000:0986
0000:0986 CD 52 08
0000:0989 CD 1C 01
0000:0986 TB 07
0000:0986 TB 07
0000:0991 T2
0000:0991 T2
0000:0995 TA 0E 60
0000:0998 TO 0000:0998 TO 0000:0998 TO 0000:0996
0000:0996 C9
0000:0996 C9
0000:0997 C9
0000:0997 TO 0000:0996
0000:0997 TO 0000:0997 TO 0000:0997 TO 0000:0997 TA 26 60
0000:0986
                                              loc_0_986:
                                                                                                                                                                                   ; DATA XREF: 0000:07021o
                                                                                                clear_tiles_and_sprites
                                                                               call
ld
                                                                                                stop_sound
de, flipscreen
a, 1
                                                                                                a, 1
(de), a
                                                                               ld
ld
                                                                                               hl, main_sequencer
a, (unk_0_600E)
                                                                                ld
                                                                                ld
                                                                                and
jp
ld
                                                                                                nz, loc_0_99F
                                              loc_0_99F:
                                                                                                                                                                                    ; CODE XREF: 0000:0999†j
0000:099F 3A 26 60
0000:099F 3A 26 60
0000:09A2 3D
0000:09A3 CA A8 09
0000:09A7 12
0000:09A8
0000:09A8
                                                                                               a, (upright)
                                                                                1d
                                                                                                z, loc_0_9A8
                                                                                jр
                                                                                xor
                                                                                1d
                                                                                                (de), a
                                              loc_0_9A8:
                                                                                                                                                                                    ; CODE XREF: 0000:09A3 j
0000:09A8 36 03
0000:09AA C9
0000:09AB
0000:09AB
                                                                                                (hl), 3
                                                                                1d
0000:09AB
0000:09AB 21 40 60
0000:09AB 21 28 62
0000:09AB 11 28 62
0000:09B1 01 08 00
0000:09B4 ED B0
0000:09B6 2A 2A 62
0000:09B9 7E
0000:09BA 32 27 62
0000:09BA 32 60
0000:09BA 32 60
0000:09BA 32 60
0000:09CA 36 78
0000:09CA 36 78
0000:09CA 36 02
                                                                                                                                                                                    ; DATA XREF: 0000:0704 o
                                              loc_0_9AB:
                                                                                                hl, pl_level_data de, life_no
                                                                               ld
ld
                                                                                                                                                                                    ; player_current_data
                                                                                ld
                                                                                                bc, 8
                                                                                ldir
                                                                               ld
ld
ld
ld
and
ld
                                                                                                hl, (seq_data)
a, (hl)
                                                                                                                                                                                    ; ptr current sequence table
; get level type
                                                                                                a, (hl)
(level_type), a
                                                                                                                                                                                    ; store as current
                                                                                                a, (two_players)
                                                                                                hl, eight_bit_countdown
                                                                                                de, main_sequencer z, loc_0_9D0 (hl), 78h; 'x' de, hl
                                                                                ld
                                                                                jp
ld
                                                                                ex
0000:09CD 36 02
0000:09CF C9
0000:09D0
0000:09D0
                                                                                1d
                                                                                                (hl), 2
0000:09D0
                                              loc_0_9D0:
                                                                                                                                                                                    ; CODE XREF: 0000:09C71i
0000:09D0 36 01
0000:09D2 EB
0000:09D3 36 05
0000:09D5 C9
0000:09D6
0000:09D6
                                                                               ld
ex
ld
                                                                                                (hl), 1
de, hl
(hl), 5
0000:09D6
                                              loc_0_9D6:
                                                                                                                                                                                    ; DATA XREF: 0000:0706 o
xor
ld
ld
                                                                                                (palette_bank), a
(palette_bank+1), a
                                                                                                                                                                                    ; palette bank 0
                                                                                ld
                                                                                                de. 3021
                                                                               call
ld
call
                                                                                                 sub_0_309F
                                                                                                de, 201h
sub_0_309F
0000:09E9 3E 05
0000:09EB 32 0A 60
0000:09EE
                                                                                1d
                                                                                                 (main_sequencer), a
                                                                               SUBROUTINE
0000:09EE
0000:09EE
0000:09EE
0000:09EE
                                                                                                                                                                                    ; CODE XREF: 0000:07A0↑p
                                             display 2UP:
0000:09EE 3E 02
                                                                                                                                                                                    ; 0000:0A2E p
0000:09EE 3E 02

0000:09EE

0000:09F0 32 E0 74

0000:09F3 3E 25

0000:09F5 32 C0 74

0000:09F8 3E 20

0000:09FA 32 A0 74

0000:09FD 09
                                                                               ld
ld
                                                                                                a, 2
(VRAM_start+0E0h), a
                                                                                                                                                                                    ; 'U'
                                                                                ld
ld
                                                                                                 a, 25h ; '%'
(VRAM_start+0C0h), a
                                                                               ld
ld
                                                                                                                                                                                    ; 'P'
                                                                                                (VRAM_start+0A0h), a
                                                                                ret
0000:09FD
0000:09FD
0000:09FE
0000:09FE
                                               ; End of function display_2UP
0000:09FE
0000:09FE 21 48 60
0000:09FE 21 48 60
0000:0A01 11 28 62
0000:0A04 01 08 0
0000:0A07 ED B0
0000:0A07 ED B0
0000:0A0C 7E
0000:0A0D 32 27 62
0000:0A1D 32 78
0000:0A1D 32 20 60
0000:0A15 3E 04
0000:0A15 3E 04
0000:0A1A C9
0000:0A1B
                                                                                                                                                                                    ; DATA XREF: 0000:0708 o
                                              loc_0_9FE:
                                                                                                hl, p2_level_data de, life_no
                                                                               ld
ld
                                                                                                                                                                                    ; player_current_data
                                                                                ld
                                                                                                bc. 8
                                                                               ldir
ld
ld
                                                                                                hl, (seq_data)
                                                                                                                                                                                    ; ptr current seq table
; get level type
; store as current
                                                                                                a, (hl)
(level_type), a
                                                                                ld
                                                                                ld
ld
                                                                                                 (eight_bit_countdown), a
                                                                                ld
                                                                                                (main_sequencer), a
                                                                                ld
0000:0A1B
0000:0A1B
0000:0A1B AF
0000:0A1C 32 86 7D
0000:0A1F 32 87 7D
0000:0A22 11 03 03
                                              display_p2_screen?:
                                                                                                                                                                                    ; DATA XREF: 0000:070A1o
                                                                               xor
ld
                                                                                                (palette_bank), a
(palette_bank+1), a
de, 303h
                                                                                1d
                                                                                                                                                                                   ; palette bank 0
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 21/11/2013, 12:01:24 AM
0000:0A25 CD 9F 30
                                                                                call
                                                                                                sub_0_309F
0000:0A25 CD 9F 30

0000:0A28 11 01 02

0000:0A28 CD 9F 30

0000:0A2E CD EE 09

0000:0A31 3E 05

0000:0A33 32 0A 60

0000:0A37

0000:0A37
                                                                                1d
                                                                                                de.
                                                                               call
call
ld
                                                                                                sub_0_309F
display_2UP
                                                                                                (main_sequencer), a
                                                                                1d
                                                                                                                                                                                    ; DATA XREF: 0000:070C1o
0000:0A37
                                              display_pl_screen?:
0000:0A37 11 04 03
0000:0A3A CD 9F 30
0000:0A3D 11 02 02
                                                                                ld
                                                                                                de. 304h
                                                                                call
                                                                                                sub_0_309F
                                                                                ld
                                                                                                de,
0000:0A40 CD 9F 30
0000:0A43 11 00 02
0000:0A46 CD 9F 30
0000:0A46 11 00 06
                                                                               call
ld
call
                                                                                                sub_0_309F
                                                                                                de, 200h
sub_0_309F
                                                                                ld
                                                                                                de.
UUUU: 0A49 11 00 06
0000: 0A4C CD 9F 30
0000: 0A4F 21 0A 60
0000: 0A52 34
0000: 0A53
0000: 0A53
0000: 0A53
0000: 0A53
                                                                                                sub_0_309F
hl, main_sequencer
(hl)
                                                                                call
ld
                                                                                inc
                                                                               SUBROUTINE
0000:0A53
0000:0A53
0000:0A53
3E 01
0000:0A55
0000:0A55 32 40 77
0000:0A5A 32 20 77
0000:0A5A 32 00 77
                                                                                                                                                                                    ; CODE XREF: 0000:01F1 p
                                              display_1UP:
                                                                                                                                                                                    ; 0000:07981p; '1'
                                                                                                (VRAM_start+340h), a
                                                                                ld
                                                                                                                                                                                    3 1771
                                                                                14
                                                                                                  (VRAM_start+320h), a
                                                                                                                                                                                    ; 'P'
                                                                                ld
ld
                                                                                                a, 20h;
(VRAM_start+300h), a
0000:0A62 C9
0000:0A62
0000:0A62
                                              ret
; End of function display_1UP
0000:0A63
0000:0A63
0000:0A63
0000:0A63 DF
                                                                                                                                                                                    ; DATA XREF: 0000:070E↑o ; wait for 8-bit countdown
                                               wait:
0000:0A63 DF
0000:0A64 CD 74 08
0000:0A67 21 09 60
0000:0A6A 36 01
0000:0A6C 2C
0000:0A6B 34
0000:0A6F 11 2C 62
0000:0A71 1A
0000:0A72 A7
0000:0A73 C0
0000:0A75 C9
0000:0A76
                                                                                rst
                                                                                                clear_visible_area_and_sprites
                                                                                call
                                                                               ld
ld
                                                                                                hl, eight_bit_countdown (hl), 1
                                                                                inc
                                                                                                                                                                                    ; game_sequencer
; inc
                                                                                                 (h1)
                                                                                inc
                                                                                ld
ld
                                                                                                de, unk_0_622C
a, (de)
                                                                                and
                                                                                                                                                                                    ; already seen intro?
; no, return
                                                                                ret
                                                                                inc
                                                                                                (hl)
                                                                                                                                                                                    ; skip intro sequence
0000:0A76
0000:0A76
0000:0A76 3A 85 63
                                              do_intro_sequence:
                                                                                                                                                                                    ; DATA XREF: 0000:0710 o
                                                                                                a, (intro_sequencer)
28h
                                                                                ld
0000:0A79 EF
                                                                               rst
                                                                                                                                                                                    ; an!
0000:0A79 EF
0000:0A79
0000:0A7A 8A 0A
0000:0A7C BF 0A
                                                                                .dw draw_climb_screen .dw loc_0_ABF
                                                                                                                                                                                    ; Jump table
0000:0A7E E8 0A
0000:0A80 69 30
0000:0A82 06 0B
0000:0A84 69 30
                                                                                .dw loc_0_AE8
.dw loc_0_3069
.dw draw_1st_girder_dformation
.dw loc_0_3069
                                                                                 .dw draw_rest_of_deformations
0000:0A86 68 0B
0000:0A88 B3 0B
0000:0A8A
0000:0A8A
0000:0A8A
0000:0A8A AF
0000:0A8B 3Z 86 7D
0000:0A8B 3Z 87 7D
0000:0A9F 3Z 87 7D
0000:0A9F 3D A7 0D
0000:0A9F 3D A7 0D
                                              draw_climb_screen:
                                                                                                                                                                                    : DATA XREF: 0000:0A7A10
                                                                               xor
ld
                                                                                                (palette_bank), a
                                                                                inc
                                                                                                (palette_bank+1), a
de, draw_data_climb
sub_0_DA7
                                                                                ld
ld
                                                                                                                                                                                    ; palette bank 2
                                                                                                                                                                                    ; get address of ???
                                                                                call
0000:0A98 3E 10
0000:0A9A 32 A3 76
0000:0A9D 32 63 76
0000:0AA0 3E D4
                                                                               ld
ld
ld
                                                                                                a, 10h
(VRAM_start+2A3h), a
(VRAM_start+263h), a
a, 0D4h; 'È'
                                                                                                                                                                                    ; <space>
                                                                                                                                                                                    ; half ladder, half girder
0000:0AA0 3E D4
0000:0AA2 32 AA 75
0000:0AA5 AF
0000:0AA6 32 AF 62
0000:0AA9 21 B4 38
0000:0AAC 22 C2 63
0000:0AAF 21 CB 38
0000:0ABE 22 C4 63
                                                                                ld
                                                                                                (VRAM_start+1AAh), a
                                                                               ld
xor
ld
ld
ld
ld
ld
                                                                                               a (unk_0_62AF), a hl, dk_intro_jump_up_data (unk_0_63C2), hl hl, dk_intro_jump_across_data (unk_0_63C4), hl
0000:0AB2 22 C4 63
0000:0AB5 3E 40
0000:0AB7 32 09 60
0000:0ABA 21 85 63
0000:0ABD 34
0000:0ABE C9
                                                                                                a, 40h; '@'
(eight_bit_countdown), a
hl, intro_sequencer
(hl)
                                                                                ld
                                                                                ld
ld
                                                                                inc
0000:0ABE
0000:0ABF
0000:0ABF
                                              loc_0_ABF:
                                                                                                                                                                                    ; DATA XREF: 0000:0A7C↑o
0000:0ABF DF
0000:0AC0 21 8C 38
0000:0AC3 CD 4E 00
0000:0AC6 21 08 69
0000:0AC9 DE 30
0000:0ACB FF
0000:0ACC 21 08 69
0000:0ACC 21 08 69
                                                                               rst
ld
call
ld
ld
rst
ld
                                                                                               18h
hl, kong_climbing_spr
copy_sprites_2_11_data
hl, soft_sprite_ram+8
c, 48
88h
                                                                                                                                                                                    ; wait for 8-bit countdown
                                                                                                                                                                                    ; sprite #2, y coord
                                                                                                                                                                                    ; add 48 to y coord for 10 sprites
; sprite #2, x coord
                                                                                                hl, soft_sprite_ram+0Bh
c, 153
                                                                                               2, 1
38h
1Fh
                                                                                1d
0000:0ACF 0E 99

0000:0AD1 FF

0000:0AD2 3E 1F

0000:0AD4 32 8E 63

0000:0AD7 AF

0000:0AD8 32 0C 69

0000:0ADB 21 8A 60

0000:0ADB 36 01

0000:0ADD 36 01
                                                                                rst
ld
ld
                                                                                                                                                                                    ; add 153 to x coord for 10 sprites
                                                                                                 (unk_0_638E), a
                                                                                xor
                                                                                ld
ld
                                                                                                (soft_sprite_ram+0Ch), a
hl, unk_0_608A
(hl), 1
                                                                                                                                                                                   ; sprite #3, y coord
                                                                                ld
                                                                                               (h1), 3
h1, intro_sequencer
(h1)
                                                                                inc
                    36 03
21 85 63
34
0000:0AE1
0000:0AE3
                                                                                ld
ld
0000:0AE3 21
0000:0AE6 34
0000:0AE7 C9
0000:0AE8
0000:0AE8
```

; DATA XREF: 0000:0A7E10

inc

call

sub\_0\_306F

loc 0 AE8:

0000:0AE8

0000:0AE8 CD 6F 30

```
0000:0B86
0000:0B86 21 CB 38
0000:0B89 22 C4 63
0000:0B8C 3E 03
0000:0B8C 3E 82 60
0000:0B91 21 DC 38
0000:0B94 3A 8D 63
0000:0B97 3D
                                                                              ld
ld
                                                                                              hl, draw_data_bend_girders_2
a, (unk_0_638D)
                                                                              dec
0000:0B98 07
0000:0B99 07
0000:0B9A 07
0000:0B9B 07
                                                                              rlca
rlca
rlca
                                                                              rlca
0000:0B9E 07
0000:0B9C 5F
0000:0B9D 16 00
0000:0B9F 19
                                                                              ld
ld
add
                                                                                              e, a
d, 0
hl, de
0000:0BA0 EB
                                                                              ex
                                                                                              de, hl
0000:0BA1 CD A7 0D
0000:0BA4 21 8D 63
0000:0BA7 35
                                                                                              sub_0_DA7
hl, unk_0_638D
(hl)
                                                                              call
ld
                                                                              dec
                                                                                              nz
- OBOh
0000:0BA8 C0
                                                                              ret
0000:0BA9 3E B0
0000:0BAB 32 09 60
0000:0BAE 21 85 63
0000:0BB1 34
                                                                              ld
ld
                                                                                              ld
                                                                                              hl, intro_sequencer (hl)
                                                                              inc
0000:0BB2 C9
0000:0BB3
0000:0BB3
0000:0BB3
0000:0BB3 21 8A 60
0000:0BB6 3A 09 60
0000:0BB9 FE 90
                                             growl:
                                                                                                                                                                                 ; DATA XREF: 0000:0A8810
                                                                                              hl, unk_0_608A
a, (eight_bit_countdown)
90h; 'É'
                                                                              ld
                                                                              cp
jr
                                                                                               nz, loc_0_BC8
0000:0BBB 20 0B
```

0000:0C4B CB 27 0000:0C4D CB 27 0000:0C5E ZI FO 3C 0000:0C5S CS 0000:0C5S CS 0000:0C5A DD 2A A8 63 0000:0C5B 09 0000:0C5B 09

0000:0C5C 7E 0000:0C5D DD 77 60 0000:0C60 23 0000:0C61 7E

0000:0C62 DD 77 40 0000:0C65 23

0000:0C67 DD 77 20 0000:0C6A DD 36 E0 8B 0000:0C6E C1

0000:0C6F DD E5

0000:0C71 E1

0000:0C65 23 0000:0C66 7E sla push ld

push ld

ld ld

add ld ld

inc ld

ld

ld ld ld

pop

push pop bc

c, a b, 0 hl, bc a, (hl) (ix+60h), a

hl a, (hl)

hl, draw\_data\_how\_high

ix, (unk\_0\_63A8)

(ix. hl a, (hl) (ix+20h), a (ix-20h), 8Bh; 'i'

```
Page: 20
```

.dw

0000:0027 0000:0D27

VRAM\_start+2D9h VRAM\_start+12Ah .dw VRAM\_start+12Fh .dw VRAM\_start+134h .dw VRAM\_start+139h SUBROUTINE

```
Page: 21
```

```
0000:0D27
 0000:0D27
                                         sub 0 D27:
                                                                                                                                                                ; CODE XREF: 0000:0CF21p
                                         ld hl, VRAM_start+30Dh
call sub_0_D30
ld hl, VRAM_start+20Dh
Find of function sub_0_D27
 0000:0D27 21 0D 77
0000:0D2A CD 30 0D
0000:0D2D 21 0D 76
 0000:0D2D
0000:0D2D
0000:0D2D
0000:0D30
0000:0D30
                                                                   SUBROUTINE ...
 0000:0D30
 0000:0D30
0000:0D30
0000:0D30 06 11
                                         sub_0_D30:
                                                                                                                                                                ; CODE XREF: sub_0_D27+3\p
                                                                       ld
                                                                                     b, 11h
0000:0330 06 11
0000:0032
0000:0032
0000:0032 36 FD
0000:0034 23
0000:0035 10 FB
0000:0037 11 0F 00
0000:0038 19
                                         loc_0_D32:
                                                                                                                                                                ; CODE XREF: sub_0_D30+5|j
                                                                                      (hl), OFDh ; '2'
                                                                       ld
                                                                       inc
                                                                                     hl
                                                                                     loc_0_D32
de, OFh
hl, de
                                                                       djnz
ld
add
 0000:0D3B 06 11
                                                                       1d
                                                                                     b. 11h
 0000:0D3D
0000:0D3D
0000:0D3D 36 FC
                                          loc_0_D3D:
                                                                                                                                                                ; CODE XREF: sub_0_D30+10|j
                                                                                      (hl), OFCh; '3'
                                                                       ld
0000:0D3D 36 FC
0000:0D3F 23
0000:0D40 10 FB
0000:0D42 C9
0000:0D42
0000:0D42
0000:0D43
0000:0D43
                                                                       djnz
                                                                                      loc_0_D3D
                                                                       ret
                                          ; End of function sub 0 D30
                                         ; SUBROUTINE
 0000:0D43
0000:0D43
0000:0D43
0000:0D43 21 87 76
0000:0D46 CD 4C 0D
0000:0D49 21 47 75
0000:0D49
                                          sub_0_D43:
                                                                                                                                                                ; CODE XREF: 0000:0CB6†p
                                                                       ld
                                                                                     hl, VRAM_start+287h
                                                                       call
                                                                                     sub 0 D4C
                                         ld hl, ; End of function sub_0_D43
                                                                                            VRAM_start+147h
 0000:0D4C
 0000:0D4C
0000:0D4C
0000:0D4C
                                                                     SUBROUTINE
 0000:0D4C
                                         sub_0_D4C:
                                                                                                                                                                ; CODE XREF: sub_0_D43+31p
 0000:0D4C
0000:0D4C 06 04
0000:0D4E
0000:0D4E
                                                                       ld
                                                                                     b, 4
                                         loc 0 D4E:
                                                                                                                                                                ; CODE XREF: sub 0 D4C+5 | j
0000:0D4E
0000:0D4E 36 FD
0000:0D50 23
0000:0D51 10 FB
0000:0D53 11 1C 00
0000:0D56 19
0000:0D57 06 04
0000:0D59
                                                                                      (hl), OFDh; '2'
                                                                       14
                                                                       inc
djnz
                                                                                     hl
loc_0_D4E
                                                                                     de, 1Ch
hl, de
b, 4
                                                                       1d
                                                                       add
0000:0D59
0000:0D59
0000:0D59 36 FC
0000:0D5B 23
0000:0D5C 10 FB
0000:0D5E C9
0000:0D5E
0000:0D5E
                                         loc 0 D59:
                                                                                                                                                              ; CODE XREF: sub 0 D4C+10-j
                                                                       14
                                                                                      (hl), OFCh; '3'
                                                                                     loc_0_D59
                                                                       djnz
                                         ret; End of function sub_0_D4C
 0000:0D5F
0000:0D5F
0000:0D5F CD 56 0F
0000:0D5E CD 41 24
0000:0D65 21 09 60
0000:0D68 36 40
0000:0D68 34
0000:0D68 34
                                         loc_0_D5F:
                                                                                                                                                                ; CODE XREF: 0000:3FA3|j
                                                                                     sub_0_2441
hl, eight_bit_countdown
(hl), 40h; '@'
                                                                       call
                                                                       ld
ld
                                                                       inc
                                                                                     hl
                                                                                      (hl)
                                                                       inc
0000:0D6B 34
0000:0D6C 21 5C 38
0000:0D6F CD 4E 00
0000:0D72 11 00 69
0000:0D75 01 08 00
0000:0D78 ED B0
0000:0D7A 3A 27 62
0000:0D7D FE 04
                                                                       ld
call
ld
ld
                                                                                     hl, kong_normal_spr
copy_sprites_2_11_data
de, soft_sprite_ram
bc, 8
                                                                                                                                                                ; sprites 0,1 ; 8 bytes to copy
                                                                       ldir
ld
                                                                                                                                                                ; copy pauline sprite
                                                                                     a, (level_type)
                                                                       cp
jr
rrca
                                                                                                                                                                ; rivets?
0000:0D/D FE 04

0000:0D7F 28 0A

0000:0D81 0F

0000:0D82 0F

0000:0D83 D8

0000:0D84 21 0B 69

0000:0D87 0E FC

0000:0D89 FF
                                                                                     z, loc_0_D8B
                                                                                                                                                                ; yes, skip
                                                                       rrca
                                                                       ret
                                                                                     hl, soft_sprite_ram+0Bh
c, 0FCh; '3'
38h
                                                                       1d
                                                                                                                                                                ; sprite #2, x coord
; -4
                                                                       ld
                                                                                                                                                                ; subtract 4 from x coord for 10 sprites
                                                                       rst
 0000:0D8A C9
                                                                       ret
 0000:0D8B
0000:0D8B
0000:0D8B 0000:0D8B 21 08 69 0000:0D8B 21 08 69 0000:0D8D 07 0000:0D90 11 04 00 0000:0D94 11 04 00 0000:0D94 CD 3D 00 0000:0D94 CD 3D 00 0000:0D90 21 03 69 0000:0D90 21 03 69 0000:0D90 21 03 69 0000:0D90 21 03 69 0000:0D90 21 03 69
                                                                                                                                                                ; CODE XREF: 0000:0D7F<sup>†</sup>j; sprite #2, xcoord
                                         loc 0 D8B:
                                                                                     hl, soft_sprite_ram+8
c, 68
38h
de, 4
                                                                       ld
                                                                       ld
rst
ld
                                                                                                                                                                ; add 68 to x coord for 10 sprites
                                                                       ld
ld
call
                                                                                     bc, 210h
hl, soft_sprite_ram
loc_0_3D
                                                                                                                                                                ; sprite #0, y coord
                                                                                     bc, 2F8h
hl, soft_sprite_ram+3
 0000:0DA0 21
0000:0DA3 CD
0000:0DA6 C9
0000:0DA7
                        0.3
                              69
                                                                       ld
                                                                                                                                                                ; sprite #0, x coord
                                                                       call
                                                                                      loc_0_3D
                                                                      ret
 0000:0DA7
0000:0DA7
0000:0DA7
                                                                    SUBROUTINE
                                                                                                                                                                   CODE XREF: 0000:0A951p
 0000:0DA7
                                         sub_0_DA7:
 0000:0DA7
0000:0DA7
1A
0000:0DA7
0000:0DA8 32
                                                                                                                                                                   0000:0B4B1p ...
get flag/tile
                                                                                           (de)
                                                                                     (unk_0_63B3), a
0AAh; '¬'
                  32 B3 63
                                                                       ld
                                                                                                                                                                   store for later done?
                                                                       cp
ret
inc
 0000:0DAB FE AA
 0000:0DAD C8
0000:0DAE 13
                                                                                                                                                                   yes, return
next table address
                                                                                      z
de
 0000:0DAE 13
0000:0DAF 1A
0000:0DB0 67
0000:0DB1 44
0000:0DB2 13
                                                                                     a, (de)
h, a
b, h
                                                                                                                                                                   get byte
                                                                       ld
ld
                                                                                                                                                                    H=bvte1
                                                                                                                                                                   B=byte1
next table address
                                                                                     de
                                                                                     a, (de)
1, a
                                                                                                                                                                 ; get byte
; L=byte2
 0000:0DB3 1A
                                                                       1d
 0000:0DB4 6F
```

```
c, 1
de
                                                                                ld
                                                                                                                                                                                     ; C=byte2
                                                                                push
call
0000:0DB6 D5
0000:0DB7 CD F0 2F
0000:0DBA D1
0000:0DBB 22 AB 63
0000:0DBE 78
                                                                                                 sub_0_2FF0
de
(unk_0_63AB), hl
                                                                                pop
ld
                                                                                1d
                                                                                                 a, b
0000:0DBF E6 07
0000:0DC1 32 B4 63
0000:0DC4 79
                                                                                 and
                                                                                                  (unk_0_63B4), a
                                                                                ld
                                                                                ld
0000:0DC4 79
0000:0DC5 E6 07
0000:0DC7 32 AF 63
0000:0DCA 13
0000:0DCB 1A
                                                                                and
ld
                                                                                                  (unk_0_63AF), a
                                                                                                de
a, (de)
                                                                                inc
ld
0000:0DCC 67
0000:0DCD 90
0000:0DCE D2 D3 0D
0000:0DD1 ED 44
                                                                                1d
                                                                                sub
                                                                                                nc, loc_0_DD3
                                                                                jр
                                                                                neg
0000:0DD3
0000:0DD3
0000:0DD3 32 B1 63
                                               loc_0_DD3:
                                                                                                                                                                                    ; CODE XREF: sub_0_DA7+27 j
                                                                                ld
                                                                                                 (unk_0_63B1), a
0000:0DD6 13
0000:0DD7 1A
0000:0DD8 6F
0000:0DD9 91
                                                                                inc
                                                                                                 de
                                                                                                a, (de)
1, a
                                                                                ld
                                                                                ld
                                                                                sub
ld
0000:0DDA 32 B2 63
                                                                                                 (unk_0_63B2), a
0000:0DDA 32 B2 63
0000:0DDD 1A
0000:0DDE E6 07
0000:0DE0 32 B0 63
0000:0DE3 D5
0000:0DE4 CD F0 2F
0000:0DE7 D1
0000:0DE8 22 AD 63
                                                                                ld
and
ld
                                                                                                a, (de)
                                                                                                 (unk_0_63B0), a
                                                                                push
call
                                                                                                 sub_0_2FF0
                                                                                                 de (unk_0_63AD), hl
                                                                                pop
ld
0000:0DEB 3A B3 63
0000:0DEE FE 02
0000:0DF0 F2 4F 0E
0000:0DF3 3A B2 63
                                                                                1d
                                                                                                a, (unk_0_63B3)
2
                                                                                ср
                                                                                                p, loc_0_E4F
a, (unk_0_63B2)
10h
b, a
a, (unk_0_63AF)
                                                                                jp
ld
0000:0DF3 3A B2 03
0000:0DF6 D6 10
0000:0DF8 47
0000:0DF9 3A AF 63
                                                                                sub
ld
ld
0000:0DFC 80
0000:0DFC 32 B2 63
0000:0E00 3A AF 63
0000:0E03 C6 F0
0000:0E05 2A AB 63
0000:0E05 2A AB 63
0000:0E08 77
0000:0E09 2C
                                                                                add
                                                                                                a, b
(unk_0_63B2), a
a, (unk_0_63AF)
a, OFOh; '-'
                                                                                ld
ld
                                                                                add
ld
                                                                                                hl, (unk_0_63AB)
                                                                                                 (hl), a
1
30h; '0'
                                                                                ld
inc
U0UU:0E09 2C
0000:0E0A D6 30
0000:0E0C 77
0000:0E0D 3A B3 63
0000:0E10 FE 01
0000:0E15 AF
0000:0E16 32 B2 63
0000:0E19
                                                                                sub
ld
                                                                                                a, (unk_0_63B3)
                                                                                ld
                                                                                ср
                                                                                                nz, loc_0_E19
                                                                                jp
xor
                                                                                                 (unk_0_63B2), a
0000:0E19
0000:0E19 3A B2 63
0000:0E19
0000:0E1C D6 08
                                                                                                                                                                                     ; CODE XREF: sub_0_DA7+6B<sup>†</sup>j
; sub_0_DA7+80<sup>†</sup>j
                                              loc 0 E19:
                                                                                ld
                                                                                                a, (unk_0_63B2)
                                                                                sub
                                                                                                 (unk_0_63B2), a
c, loc_0_E2A
1
0000:0E1C B0 08
0000:0E1E 32 B2 63
0000:0E21 DA 2A 0E
0000:0E24 2C
0000:0E25 36 CO
0000:0E27 C3 19 0E
                                                                                ld
                                                                                jp
inc
                                                                                                  (hl), 0C0h; 'L'
                                                                                jр
                                                                                                loc 0 E19
0000:0E2A
0000:0E2A 3A B0 63
0000:0E2D C6 D0
0000:0E2F 2A AD 63
0000:0E32 77
                                              loc 0 E2A:
                                                                                                                                                                                    ; CODE XREF: sub 0 DA7+7A1 j
                                                                                                a, (unk_0_63B0)
a, 0D0h; 'ŏ'
h1, (unk_0_63AD)
(h1), a
                                                                                14
                                                                                add
ld
                                                                                                (h1), a
a, (unk_0_63B3)
                                                                                ld
0000:0E33 3A B3 63
0000:0E36 FE 01
0000:0E38 C2 3F 0E
                                                                                ld
cp
                                                                                                nz, loc_0_E3F
                                                                                jp
dec
0000:0E3B 2D
0000:0E3C 36 C0
0000:0E3E 2C
0000:0E3F
                                                                                                  (hl), 0C0h; 'L'
                                                                                ld
                                                                                inc
0000:0E3F
                                              loc_0_E3F:
                                                                                                                                                                                    ; CODE XREF: sub_0_DA7+91 j
                                                                                                a, (unk_0_63B0)
0
0000:0E3F 3A B0 63
0000:0E42 FE 00
0000:0E44 CA 4B 0E
                                                                                ld
                                                                                ср
                                                                                jp
add
inc
ld
                                                                                                z, loc_0_E4B
                                                                                                 _, ioc_0_
a, 0E0h ;
l
0000:0E47 CA 4B
0000:0E47 C6 E0
0000:0E49 2C
0000:0E4A 77
                                                                                                                                                                                     ; convert bottom of ladder to girder
                                                                                                 (hl), a
0000:0E4B
0000:0E4B
0000:0E4B
0000:0E4B 13
0000:0E4C C3 A7 0D
0000:0E4F
                                              loc_0_E4B:
                                                                                                                                                                                     ; CODE XREF: sub_0_DA7+9D<sup>†</sup> j
                                                                                                sub_0_DA7
                                                                                jр
0000:0E4F
0000:0E4F
0000:0E4F 3A B3 63
                                                                                                                                                                                     ; CODE XREF: sub_0_DA7+49^j
                                              loc_0_E4F:
                                                                                ld
                                                                                                a, (unk_0_63B3)
0000:0E52 FE 02
0000:0E54 C2 E8 0E
0000:0E57 3A AF 63
0000:0E5A C6 F0
                                                                                cp
jp
ld
                                                                                                nz, loc_0_EE8
                                                                                                a, (unk_0_63AF)
a, 0F0h; '-'
                                                                                add
0000:0E5A C0 F0
0000:0E5C 32 B5 63
0000:0E5F 2A AB 63
0000:0E62
                                                                                                (unk_0_63B5), a
hl, (unk_0_63AB)
                                                                                ld
                                                                                                                                                                                    ; CODE XREF: sub_0_DA7+E5|j; sub_0_DA7+125|j ...
0000:0E62
                                              loc 0 E62:
0000:0E62 3A B5 63
0000:0E62
0000:0E65 77
                                                                                ld
ld
                                                                                                a, (unk_0_63B5)
(hl), a
0000:0E65 77
0000:0E66 23
0000:0E68 E6 1F
0000:0E68 E6 1F
0000:0E6D 3A B5 63
0000:0E70 FF 00
0000:0E72 CA 78 0E
0000:0E75 D6 10
0000:0E77 77
0000:0E78
0000:0E78
                                                                                                hl
a, l
1Fh
                                                                                inc
                                                                                ld
and
                                                                                                z, loc_0_E78
a, (unk_0_63B5)
                                                                                jp
ld
                                                                                                a, (unk_0_63

0F0h; '-'

z, loc_0_E78

10h
                                                                                ср
                                                                                jр
                                                                                sub
                                                                                ld
                                                                                                 (hl), a
                                              loc_0_E78:
                                                                                                                                                                                     ; CODE XREF: sub_0_DA7+C3<sup>†</sup>j
; sub_0_DA7+CB<sup>†</sup>j
0000:0E78 01 1F 00
0000:0E78
                                                                                1d
                                                                                                bc, 1Fh
```

```
0000:0E7B 09
                                                                                                  hl, bc
a, (unk_0_63B1)
8
                                                                                 add
0000:0E7B 09

0000:0E7C 3A B1 63

0000:0E7F D6 08

0000:0E81 DA CF 0E

0000:0E81 DA EF 0E

0000:0E87 3A B2 63

0000:0E8A FE 00

0000:0E8A FE 00

0000:0E8F 3A B5 63

0000:0E9Z 77
                                                                                 1d
                                                                                 sub
jp
ld
                                                                                                  c, loc_0_ECF
(unk_0_63B1)
                                                                                                 a, (unk_0_63B2)
                                                                                 ld
                                                                                 cp
jp
ld
                                                                                                  z, loc_0_E62
                                                                                                 a, (unk_0_63B5)
(hl), a
                                                                                 ld
0000:0E92 77
0000:0E93 23
0000:0E94 7D
0000:0E95 E6 1F
0000:0E97 CA AO 0E
0000:0E9A 3A B5 63
0000:0E9D D6 10
                                                                                                 hl
a, l
1Fh
                                                                                 ld
                                                                                 and
                                                                                                  z, loc_0_EA0
a, (unk_0_63B5)
10h
                                                                                 jp
ld
                                                                                sub
ld
                                                                                                  (hl), a
0000:0EA0
0000:0EAU
0000:0EAO
0000:0EAO 01 1F 00
0000:0EA3 09
0000:0EA4 3A B1 63
0000:0EA7 D6 08
0000:0EA9 DA CF 0E
                                                loc_0_EA0:
                                                                                                                                                                                      ; CODE XREF: sub_0_DA7+F0^j
                                                                                                 bc, 1Fh
hl, bc
                                                                                 ld
                                                                                 add
                                                                                                  a, (unk_0_63B1)
                                                                                 ld
                                                                                 sub
                                                                                                 8
c, loc_0_ECF
(unk_0_63B1), a
a, (unk_0_63B2)
7, a
                                                                                 jp
ld
0000:0EA9 DA CF 0E
0000:0EAF 3A B2 63
0000:0EAF 3A B2 63
0000:0EB2 CB 7F
0000:0EB7 3A B5 63
0000:0EB8 3C
0000:0EB8 3C
0000:0EB8 5C
0000:0EB8 3C
                                                                                 ld
bit
                                                                                                 nz, loc_0_ED3
a, (unk_0_63B5)
a
(unk_0_63B5), a
                                                                                 jp
ld
inc
                                                                                 ср
0000:0EC0 C2 C9 0E
0000:0EC3 23
0000:0EC4 3E F0
0000:0EC6 32 B5 63
                                                                                                 nz, loc_0_EC9
                                                                                 jp
inc
                                                                                                        0F0h ; '-'
                                                                                 ld
                                                                                                  (unk 0 63B5), a
                                                                                 ld
0000:0EC0 32
0000:0EC9
0000:0EC9 7D
                                                loc_0_EC9:
                                                                                                                                                                                       ; CODE XREF: sub_0_DA7+119 j
                                                                                 ld
                                                                                                  a, l
1Fh
0000:0EC9 7D
0000:0ECA E6 1F
0000:0ECC C2 62 0E
0000:0ECF
0000:0ECF
0000:0ECF 13
                                                                                 and
                                                                                                  nz, loc_0_E62
                                                                                 jр
                                                                                                                                                                                        ; CODE XREF: sub_0_DA7+DA<sup>†</sup>j; sub_0_DA7+102<sup>†</sup>j ...
                                               loc 0 ECF:
0000:0ECF 13
0000:0EDF 03 A7 0D
0000:0ED3
                                                                                 inc
jp
                                                                                                  de
sub_0_DA7
0000:0ED3
0000:0ED3 3A B5 63
                                                                                                                                                                                        ; CODE XREF: sub_0_DA7+10D<sup>†</sup> j
                                               loc_0_ED3:
                                                                                 ld
                                                                                                  a, (unk_0_63B5)
0000:0ED6 3D
0000:0ED7 32 B5 63
0000:0EDA FE F0
0000:0EDC F2 E5 0E
                                                                                 dec
                                                                                 ld
                                                                                                    (unk_0_63B5), a
                                                                                 ср
                                                                                                 p, loc_0_EE5
                                                                                 jp
dec
0000:0EDF 2B
0000:0EE0 3E F7
0000:0EE2 32 B5 63
0000:0EE5
                                                                                                        0F7h ; ' '
                                                                                 ld
                                                                                 ld
                                                                                                  (unk_0_63B5), a
0000:0EE5
0000:0EE5 C3 62 0E
0000:0EE8
0000:0EE8
                                               loc_0_EE5:
                                                                                                                                                                                       ; CODE XREF: sub_0_DA7+135 j
                                                                                 jр
                                                                                                  loc_0_E62
0000:0EE8
                                               loc_0_EE8:
                                                                                                                                                                                        ; CODE XREF: sub 0 DA7+AD1 i
0000:0EE8 3A B3 63 0000:0EEB FE 03 0000:0EED C2 1B 0F 0000:0EFD C2 AB 63 0000:0EF3 3E B3 0000:0EF5 77 0000:0EF6 01 20 00
                                                                                                 a, (unk_0_63B3)
3
                                                                                 ср
                                                                                                 nz, loc_0_F1B
h1, (unk_0_63AB)
a, 0B3h; '|'
(h1), a
bc, 20h; ''
h1, bc
a, (unk_0_63B1)
                                                                                 jp
ld
ld
ld
                                                                                 ld
0000:0EF9 09
0000:0EFA 3A B1 63
0000:0EFD D6 10
                                                                                 add
1d
                                                                                                         (unk_0_63B1)
                                                                                                  a,
10h
                                                                                 sub
0000:0EFF
0000:0EFF DA 14 0F
0000:0F02 32 B1 63
0000:0F05 3E B1
0000:0F07 77
0000:0F08 09
0000:0F08 09
0000:0F0B 09
0000:0F0C 3A B1 63
0000:0F0F D6 08
0000:0F11 C3 FF 0E
0000:0F14
0000:0EFF
                                               loc_0_EFF:
                                                                                                                                                                                      ; CODE XREF: sub_0_DA7+16A|j
                                                                                                 c, loc_0_F14
(unk_0_63B1), a
a, 0B1h; '
'(h1), a
bc, 20h; '
h1, bc
                                                                                 jp
ld
                                                                                 ld
ld
ld
                                                                                 add
                                                                                                  a, (unk_0_63B1)
                                                                                 ld
                                                                                 sub
                                                                                                  loc_0_EFF
                                                                                 qŗ
0000:0F14
0000:0F14
0000:0F14 3E B2
0000:0F16 77
0000:0F17 13
0000:0F18 C3 A7 0D
0000:0F1B
                                                loc_0_F14:
                                                                                                                                                                                       ; CODE XREF: sub_0_DA7+158 j
                                                                                                  a, 0B2h; '|| '|| '
                                                                                 ld
ld
                                                                                                  sub_0_DA7
                                                                                 jр
0000:0F1B
0000:0F1B
0000:0F1B 3A B3 63
0000:0F1E FE 07
                                               loc_0_F1B:
                                                                                                                                                                                      ; CODE XREF: sub_0_DA7+146 j
                                                                                                 a, (unk_0_63B3)
                                                                                 ld
                                                                                 cp
jp
cp
0000:0F20 F2 CF 0E
0000:0F23 FE 04
0000:0F25 CA 4C 0F
0000:0F28 FE 05
                                                                                                  p, loc_0_ECF
                                                                                                  z, erase_straight_girders
                                                                                 cp
jp
ld
0000:0F2A CA 51 0F
0000:0F2D 3E FE
0000:0F2F
                                                                                                   z, loc_0_F51
0000:0F2F
0000:0F2F
0000:0F2F 32 B5 63
0000:0F2F
0000:0F32 2A AB 63
0000:0F35
                                                                                                                                                                                        ; CODE XREF: sub 0 DA7+1A7-i
                                               loc 0 F2F:
                                                                                                                                                                                        ; sub_0_DA7+1AC|j
                                                                                                    (unk_0_63B5)
                                                                                                  hl, (unk_0_63AB)
                                                                                 ld
0000:0F35
0000:0F35 3A B5 63
0000:0F35 77
0000:0F39 01 20 00
0000:0F3C 09
0000:0F3C 3A B1 63
                                               loc_0_F35:
                                                                                                                                                                                       ; CODE XREF: sub_0_DA7+19E|j
                                                                                                         (unk_0_63B5)
                                                                                                 a, (unk_0_63B5)
(h1), a
bc, 20h; '
h1, bc
a, (unk_0_63B1)
                                                                                 ld
ld
                                                                                 add
ld
0000:0F40 D6 08
                                                                                 sub
ld
0000:0F42 32 B1 63
                                                                                                   (unk_0_63B1), a
```

```
0000:0F45 D2 35 0F
                                                                                                       nc, loc_0_F35
                                                                                     jр
0000:0F48 13
0000:0F49 C3 A7 0D
                                                                                                       de
                                                                                                       sub_0_DA7
                                                                                     jp
                                                                                                                                                                                                 ; CODE XREF: sub 0 DA7+17E † j
                                                 erase_straight_girders:
0000:0F4C
0000:0F4C 3E E0
0000:0F4E C3 2F 0F
0000:0F51
                                                                                                            0E0h ; 'Ó'
                                                                                                       loc_0_F2F
                                                                                     jp
0000:0F51
0000:0F51
                                                 loc_0_F51:
                                                                                                                                                                                                 ; CODE XREF: sub_0_DA7+183 j
0000:0F51 3E B0
0000:0F53 C3 2F 0F
                                                                                                       a, 0B0h; '\"'
loc_0_F2F
                                                                                     jр
0000:0F53
0000:0F53
0000:0F56
0000:0F56
                                                  ; End of function sub_0_DA7
0000:0F56
0000:0F56
0000:0F56 06 27
0000:0F58 21 00 62
0000:0F5A AF
0000:0F5C
0000:0F5C
0000:0F5C 77
                                                 loc_0_F56:
                                                                                                                                                                                                ; CODE XREF: 0000:0D5F1p
                                                                                                      b, 27h; '''
hl, is_mario_alive
                                                                                     ld
ld
                                                                                     xor
                                                 loc_0_F5C:
                                                                                                                                                                                                ; CODE XREF: 0000:0F5E|j
                                                                                                       (hl), a
                                                                                     ld
0000:0F5C 77

0000:0F5D 2C

0000:0F5E 10 FC

0000:0F60 0E 11

0000:0F62 16 80

0000:0F64 21 80 62

0000:0F67

0000:0F67
                                                                                                       loc_0_F5C
                                                                                                       c, 11h
d, 80h; 'Ç
                                                                                     ld
                                                                                     14
                                                                                                       hl. unk 0 6280
                                                 loc_0_F67:
                                                                                                                                                                                                ; CODE XREF: 0000:0F6D|j
                                                                                    ld
                                                                                                      b, d
0000:0F68
0000:0F68
0000:0F68 77
0000:0F69 23
                                                 loc_0_F68:
                                                                                                                                                                                                ; CODE XREF: 0000:0F6A|j
                                                                                     ld
                                                                                                       (hl), a
0000:0F69 23 0000:0F66 10 FC 0000:0F6C 0D 8 0000:0F6D 20 F8 0000:0F72 11 80 62 0000:0F78 ED B0 0000:0F78 ED B0 0000:0F78 A7 0000:0F7E A7
                                                                                     inc
                                                                                     djnz
dec
jr
                                                                                                       loc_0_F68
                                                                                                       nz, loc_0_F67
                                                                                                      hl, level_init_data
de, unk_0_6280
bc, 40h; '@'
                                                                                     ĺd
                                                                                     ld
ld
ldir
                                                                                     ld
ld
and
                                                                                                       a, (level)
                                                                                     rla
0000:0F80 A7
                                                                                                       а
0000:0F80 A7
0000:0F81 17
0000:0F82 A7
0000:0F83 17
0000:0F84 80
0000:0F85 80
0000:0F86 C6 28
                                                                                     rla
                                                                                                       a
                                                                                     and
                                                                                     rla
                                                                                                       a, b
a, b
a, 28h; '('
51h; 'Q'
                                                                                     add
add
                                                                                     add
0000:0F88 FE 51
0000:0F8A 38 02
0000:0F8C 3E 50
0000:0F8E
                                                                                     cp
jr
ld
                                                                                                       c, loc_0_F8E
a, 50h; 'P'
0000:0F8E
0000:0F8E 21 B0 62
0000:0F91 06 03
0000:0F93
0000:0F93
                                                 loc_0_F8E:
                                                                                                                                                                                               ; CODE XREF: 0000:0F8A1 i
                                                                                                      hl, unk_0_62B0
b, 3
                                                 loc 0 F93:
                                                                                                                                                                                                ; CODE XREF: 0000:0F95|-i
0000:0F93 77
0000:0F94 2C
0000:0F94 2C
0000:0F95 10 FC
0000:0F97 87
0000:0F98 47
0000:0F98 90
                                                                                                       (hl), a
                                                                                                       loc_0_F93
                                                                                     djnz
                                                                                                       a, a
b, a
a, 0DCh; '•
                                                                                     add
                                                                                     ld
ld
                                                                                     sub
                                                                                                       b
0000:0F9E 90
0000:0F9C FE 28
0000:0F9E 30 02
0000:0FAO 3E 28
                                                                                                       28h ; '('
                                                                                     cp
jr
ld
                                                                                                       nc, loc_0_FA2
a, 28h; '('
0000:0FA0 3E 28

0000:0FA2

0000:0FA2 77

0000:0FA3 2C

0000:0FA4 77

0000:0FA8 36 04

0000:0FAA 2C

0000:0FAA 2C

0000:0FAA 3C

0000:0FAA 3C

0000:0FAA 3C

0000:0FAB 36 08

0000:0FAB 36 08

0000:0FAB 36 08
                                                 loc_0_FA2:
                                                                                                                                                                                               ; CODE XREF: 0000:0F9Efj
                                                                                     ld
                                                                                                       (hl), a
                                                                                     inc
                                                                                                      (h1), a
h1, unk_0_6209
(h1), 4
                                                                                     ld
ld
ld
                                                                                     inc
                                                                                     ld
                                                                                                       (hl), 8
                                                                                                       a, (level_type)
                                                                                                      a, (revel_type)
c, a
2, a
nz, loc_0_FCB
hl, soft_sprite_ram+100h
a, 4Fh; 'O'
b, 3
                                                                                     ld
0000:0FB0 4F
0000:0FB1 CB 57
0000:0FB3 20 16
0000:0FB5 21 00 6A
0000:0FB8 3E 4F
0000:0FBA 06 03
                                                                                     bit
                                                                                                                                                                                              ; sprite #64, y coord
                                                                                     ld
ld
0000:0FBC
0000:0FBC
0000:0FBC 77
                                                                                                                                                                                                 ; CODE XREF: 0000:0FC9|j
                                                 loc_0_FBC:
                                                                                     ld
                                                                                                       (hl), a
0000:0FBD 2C
0000:0FBE 36 3A
0000:0FCO 2C
0000:0FC1 36 0F
                                                                                     inc
ld
                                                                                                       (hl), 3Ah; ':'
                                                                                     inc
ld
                                                                                                       (hl), OFh
0000:0FC1 36 0F
0000:0FC3 2c
0000:0FC6 2c
0000:0FC7 C6 10
0000:0FCB
0000:0FCB
0000:0FCB 79
0000:0FCC EF
0000:0FCC EF
0000:0FCD 00 00
0000:0FCC D000:0FCD 00 00
0000:0FCD 37 0F
0000:0FCD 38 7 10
0000:0FCD 38 7 10
0000:0FD3 37 10
                                                                                     ld
                                                                                                        (hl), <mark>18</mark>h
                                                                                                       l
a, 10h
                                                                                     add
                                                                                     djnz
                                                                                                       loc_0_FBC
                                                                                                                                                                                                 ; CODE XREF: 0000:0FB31j
                                                 loc 0 FCB:
                                                                                     ld
                                                                                                       28h
                                                                                     rst
                                                                                     .dw RESET
.dw init_11_girder
.dw init_12_cement
.dw init_13_elevator
.dw init_14_rivets
                                                                                                                                                                                                 ; Jump table
0000:0FD7
0000:0FD7
0000:0FD7
                                                 init_l1_girder:
                                                                                                                                                                                                 ; DATA XREF: 0000:0FCF1o
0000:0FD7 21 DC 3D
                                                                                     1d
                                                                                                       hl, top_barrel_spr
de, soft_sprite_ram+0A8h
0000:0FDA 11 A8 69
```

```
0000:1000 21 0C 3E
0000:1003 CD A6 11
0000:1006
0000:1006
                                                                                                   hl, girder_hammer_locs
sub_0_11A6
                                                                                   call
                                               loc 0 1006:
0000:1006 21 1B 10
0000:1009 11 07 67
0000:100C 01 1C 08
                                                                                                   hl, cement_unknown_spr
de, unk_0_6707
                                                                                   1d
                                                                                  ld
ld
                                                                                                   bc,
0000:100F CD 2A 12
0000:1012 11 07 68
0000:1015 06 02
0000:1017 CD 2A 12
                                                                                   call
                                                                                                   sub_0_122A
                                                                                  ld
ld
                                                                                                   de, unk_0_6807
b, 2
                                                                                                   sub_0_122A
                                                                                   call
0000:101A C9
                                                                                   ret
; DATA XREF: 0000:1006 o
0000:101F
0000:101F
0000:101F
0000:101F
0000:101F
0000:1022 11 07 64
0000:1025 01 1C 05
0000:1028 CD 2A 12
0000:102B CD 86 11
0000:102E 21 18 3E
0000:102B 11 A7 65
0000:1031 11 A7 65
0000:1034 01 0C 06
0000:1037 DD 2A 12
                                                init_12_cement:
                                                                                                                                                                                           ; DATA XREF: 0000:0FD1\u00e10
                                                                                                   hl, fireball_spr
de, unk_0_6407
                                                                                   ld
                                                                                   1d
                                                                                                   bc.
                                                                                                            51Ch
                                                                                  call
call
ld
ld
                                                                                                   sub_0_122A
sub_0_1186
                                                                                                   h1, cement_pie_spr
de, unk_0_65A7
bc, 60Ch
sub_0_122A
                                                                                  call
                                                                                                   ix, unk_0_65A0
hl, soft_sprite_ram+0B8h
de, 10h
b, 6
0000:103A DD 21 A0 65
0000:103A BB 21 R0
0000:103E 21 B8 69
0000:1041 11 10 00
0000:1044 06 06
                                                                                  ld
ld
ld
0000:1046 CD D3 11
0000:1049 21 FA 3D
0000:104C CD FA 11
                                                                                                   set_B_sprites_data
hl, cement_extra_spr
sub_0_11FA
                                                                                   call
                                  3D
11
3E
                                                                                   ld
call
                                                                                                   sub_0_11FA
hl, cement_oil_barrel_spr
de, soft_sprite_ram+0FCh
0000:104F 21 04 3E 0000:1052 11 FC 69
                                                                                   1d
                                                                                   14
0000:1052 11 FC 69
0000:1055 01 04 00
0000:1058 ED BO
0000:105A 21 1C 3E
0000:105D 11 44 69
0000:1060 01 08 00
0000:1063 ED BO
                                                                                  ld
ldir
                                                                                  ld
ld
ld
                                                                                                   hl, cement ladder spr
                                                                                                   de, soft_sprite_ram+44h
bc, 8
                                                                                   ldir
                                                                                                   hl, cement_conveyer_spr
de, soft_sprite_ram+0E4h
bc, 18h
0000:1065 21 24 3E
0000:1068 11 E4 69
0000:106B 01 18 00
0000:106E ED B0
                                                                                  ld
ld
ld
ldir
0000:1070 21 10
0000:1073 CD A6
0000:1076 21 3C
0000:1079 11 0C
0000:107C 01 0C
                                                                                  ld
call
ld
                                                                                                   hl, cement_hammer_locs
sub_0_11A6
hl, cement_obj_spr
                                                                                                    de, soft_sprite_ram+10Ch
                                                                                   ld
                                   00
                                                                                   ld
0000:107E DD B0
0000:1081 3E 01
0000:1083 32 B9 62
0000:1086 C9
0000:1087
                                                                                  ldir
ld
                                                                                                   (unk_0_62B9), a
                                                                                   ld
0000:1087
                                                init_13_elevator:
                                                                                                                                                                                          ; DATA XREF: 0000:0FD310
0000:1087 21 EC 3D
0000:108A 11 07 64
0000:108D 01 1C 05
                                                                                                   hl, fireball_spr
de, unk_0_6407
bc, 51Ch
                                                                                   14
                                                                                  ld
ld
0000:1090 CD 2A 12
0000:1093 CD 86 11
0000:1096 21 00 66
0000:1099 11 10 00
                                                                                  call
call
                                                                                                   sub_0_122A
sub_0_1186
hl, unk_0_6600
de, 10h
                                                                                   ld
0000:1099 11 10
0000:109C 3E 01
0000:109E 06 06
0000:10A0
0000:10A0
                                                                                   1d
                                                                                                                                                                                         ; CODE XREF: 0000:10A2-i
                                               loc 0 10A0:
0000:10A0 77
0000:10A1 19
0000:10A2 10 FC
                                                                                   1d
                                                                                                    (hl),
                                                                                   add
                                                                                                   hl, de
loc_0_10A0
                                                                                   djnz
0000:10A2 10 FC
0000:10A4 0E 02
0000:10A6 3E 08
0000:10A8
                                                                                   1d
                                                                                   ld
                                                                                                                                                                                         ; CODE XREF: 0000:10B4-j
                                               loc 0 10A8:
0000:10A8
0000:10A8 06 03
                                                                                   ld
0000:10AA 21 0D 66
0000:10AD
0000:10AD
                                                                                   ld
                                                                                                   hl, unk_0_660D
                                               loc_0_10AD:
                                                                                                                                                                                          ; CODE XREF: 0000:10AF|j
0000:10AD 77
                                                                                   1d
                                                                                                    (hl), a
0000:10AD 77
0000:10AE 19
0000:10AF 10 FC
0000:10B1 3E 08
                                                                                  add
djnz
ld
                                                                                                   hl, de
loc_0_10AD
0000:10B3 0D
0000:10B4 0D 0000:10B4 C2 A8 10
0000:10B7 21 64 3E
0000:10BA 11 03 66
                                                                                   dec
                                                                                   jp
ld
                                                                                                    nz, loc_0_10A8
                                                                                                   hl, elevator_spr_xy de, unk_0_6603
                                                                                   ld
0000:10BD 01 0E 06
0000:10C0 CD EC 11
0000:10C3 21 60 3E
0000:10C6 11 07 66
                                                                                   ld
                                                                                                            60E
                                                                                  call
ld
ld
                                                                                                    sub_0_11EC
                                                                                                   hl, elevator_s
de, unk_0_6607
                                                                                                                                spr
0000:10C6 11 07 66
0000:10C9 01 00 06
0000:10CC CD 2A 12
0000:10CF DD 21 00 66
0000:10D3 21 58 69
0000:10D6 06 06
0000:10D8 11 10 00
                                                                                  ld
call
                                                                                                   bc, 60Ch
sub_0_122A
                                                                                                   ix, unk_0_6600
hl, soft_sprite_ram+58h
                                                                                   1d
                                                                                   ld
                                                                                   ld
ld
                                                                                                   set_B_sprites_data
hl, elevator_obj_spr
de, soft_sprite_ram+10Ch
bc, 0Ch
0000:10DB CD D3 11
0000:10DE 21 48 3E
0000:10E1 11 0C 6A
0000:10E4 01 0C 00
                                                                                   call
                                                                                   ld
ld
                                                                                   ld
0000:10E7 ED B0
                                                                                   ldir
0000:10E9 DD 21 00 64
                                                                                                   ix, unk_0_6400
                                                                                                                                                                                          ; fireball character data
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 21/11/2013, 12:01:24 AM
0000:10ED DD 36 00 01
0000:10ED DD 36 00 01 0000:10F1 DD 36 05 58 0000:10F5 DD 36 05 58 0000:10F9 DD 36 05 58 0000:10F9 DD 36 05 80 0000:10FD DD 36 07 80 0000:1101 DD 36 20 01 0000:1101 DD 36 25 60 0000:1111 DD 36 2F 60 0000:1115 11 70 69 0000:1118 21 21 11 0000:1118 ED B0
                                                                                             (ix+0),
                                                                                           (ix+0), 1
(ix+3), 58h; 'X'
(ix+0Eh), 58h; 'X'
(ix+5), 80h; 'Ç'
(ix+0Ph), 80h; 'Ç'
(ix+20h), 1
(ix+23h), 0EBh; 'Ŭ'
(ix+2Eh), 60h; 'Ŭ'
(ix+2Eh), 60h; 'Z'
(ix+2Fh), 60h; 'Z'
                                                                            ld
                                                                            ld
ld
ld
                                                                            ld
ld
ld
ld
                                                                            ld
                                                                                             (ix+2Fh), 60h
                                                                            ld
ld
ld
                                                                                            de, soft_sprite_ram+70h
hl, elevator_cap_spr
bc, 10h
0000:1137 01 1C
0000:113A CD 2A
0000:113D 21 14
0000:1140 CD A6
0000:1143 21 54
0000:1146 11 0C
0000:1149 01 0C
                                                                            call
ld
                                                                                            sub_0_122A
hl, rivet_hammer_locs
                                12
3E
11
3E
6A
00
                                                                                           sub_0_11A6
hl, rivit_obj_spr
de, soft_sprite_ram+10Ch
bc, OCh
                                                                            call
                                                                            ld
ld
                                                                            ld
ldir
0000:114C ED B0
0000:114E 21 82 11
0000:1151 11 A3 64
0000:1154 01 1E 02
0000:1157 CD EC 11
0000:115A 21 7E 11
0000:115D 11 A7 64
0000:1160 01 1C 02
0000:1163 CD 2A 12
                                                                                           hl, rivet_unknown_spr2
de, unk_0_64A3
bc, 21Eh
                                                                            ld
ld
ld
                                                                                            bc, 21Eh
sub_0_11EC
                                                                            call
                                                                            ld
ld
ld
                                                                                            hl, rivet_unknown_spr1
de, unk_0_64A7
bc, 21Ch
                                                                            call
ld
ld
ld
ld
                                                                                            sub 0 122A
0000:1163 CD 2A 12 1 A0 0000:116A DD 36 00 0000:116E DD 36 20 0000:1172 21 50 69 0000:1177 1 20 00 0000:1177 A CD D3 11 0000:117D C9
                                                                                            ix, unk_0_64A0
(ix+0), 1
(ix+20h), 1
                                                                                           hl, soft_sprite_ram+50h
b, 2
de, 20h; ''
                                                                            ld
ld
                                                                            call
                                                                                          set_B_sprites_data
0000:117D ;
0000:117E 3F 0C 08 08 rivet_unknown_sprl:.db 3Fh, 0Ch, 8, 8
                                                                                                                                                                             ; DATA XREF: 0000:115A o
0000:117E
0000:1182 73 50 8D 50 rivet_unknown_spr2:.db 73h, 50h, 8Dh, 50h
0000:1186 ; SUBROUTINE
                                                                                                                                                                             ; Rivets level? Unknown sprites? ; DATA XREF: 0000:114E↑o
0000:1186
0000:1186
0000:1186
0000:1186
0000:1186 21 A2 11
                                                                                                                                                                            ; CODE XREF: 0000:102B<sup>p</sup>; 0000:1093<sup>p</sup>
                                            sub_0_1186:
0000:1186 21 A2 11
0000:1186
0000:1189 11 07 65
0000:118C 01 0C 0A
0000:118F CD 2A 12
0000:1192 DD 21 00 65
0000:1196 21 80 69
0000:1199 06 0A
0000:1199 CD D3 11
0000:11A1 C9
0000:11A1
                                                                                           hl, elevator_bouncing_spr
de, unk_0_6507
bc, OAOCh
sub_0_122A
                                                                            1d
                                                                            ld
ld
                                                                            call
ld
                                                                                            ix, unk_0_6500
hl, soft_sprite_ram+80h
b, OAh
                                                                            ld
ld
                                                                            ld
                                                                                            de, 10h
                                                                            call
                                                                                            set_B_sprites_data
                                            ret
; End of function sub_0_1186
0000:11A1
0000:11A1 ;
0000:11A2 3B 00 02 02 elevator_bouncing_spr:.db 3Bh, 0, 2, 2
0000:11A6
                                                                                                                                                                           ; DATA XREF: sub_0_1186 o
                                                                     SUBROUTINE
0000:11A6
0000:11A6
0000:11A6
0000:11A6
                                                                                                                                                                             ; CODE XREF: 0000:10031p
                                           sub 0 11A6:
0000:11A6
0000:11A6 11 83 66
0000:11A6
0000:11A9 01 0E 02
0000:11AF 21 08 3E
0000:11B2 11 87 66
0000:11B5 01 0C 02
                                                                                                                                                                             ; 0000:1073†p ...
                                                                            ld
ld
                                                                                            de, unk_0_6683
                                                                                            bc, 20Eh
sub_0_11EC
                                                                            call
                                                                            ld
ld
ld
                                                                                            hl, hammer_pickup_spr
de, unk_0_6687
0000:11B5 01 0C 02
0000:11B8 CD 2A 12
0000:11BB DD 21 80
0000:11BF DD 36 10
0000:11C3 DD 36 10
0000:11C7 21 18 6A
0000:11CC 11 10 00
0000:11CC DD 3 11
                                                                                            sub 0 122A
                                                                            call
                                                                            ld
ld
                                                                                            ix, unk_0_6680
(ix+0), 1
                                                                            ld
ld
                                                                                             (ix+10h)
                                                                                           hl, soft_sprite_ram+118h
b, 2
de, 10h
set_B_sprites_data
                                                                                                                                                                         ; location of hammers in sprite ram
                                                                            ld
                                                                            call
0000:11D2 C9
0000:11D2
0000:11D2
0000:11D2
                                           ret; End of function sub_0_11A6
0000:11D3
0000:11D3
0000:11D3
                                            ; SUBROUTINE
                                                                                                                                                                             ; CODE XREF: 0000:1046<sup>p</sup>; 0000:10DB<sup>p</sup>...
 0000:11D3
                                            set B sprites data:
0000:11D3 DD 7E 03
0000:11D3
0000:11D6 77
                                                                                            a, (ix+3) (hl), a
                                                                                                                                                                             ; set sprite X
                                                                            ld
                                                                                           1
a, (ix+7)
0000:11D7 2C
0000:11D8 DD 7E 07
0000:11DB 77
0000:11DC 2C
                                                                            ld
ld
                                                                                            a, (ix+')
(hl), a
                                                                                                                                                                             ; set sprite tile
                                                                                           i
a, (ix+8)
                                                                            inc
                                                                            ld
0000:11DD DD 7E 08
                                                                                             (hl), a
                                                                            ld
                                                                                                                                                                            ; set sprite vflip/palette
                                                                            inc
ld
                                                                                            1
a, (ix+5)
 0000:11E2 DD 7E 05
0000:11E2 DD 72
0000:11E5 77
0000:11E6 2C
0000:11E7 DD 19
                                                                            ld
inc
add
                                                                                             (hl), a
                                                                                                                                                                            ; set sprite Y
                                                                                                                                                                             ; next sprite data address
```

set\_B\_sprites\_data

dinz

0000:11E9 10 E8 0000:11EB C9

```
0000:124B DD 21 00 62
0000:124F 21 4C 69
0000:1252 DD 36 00 01
0000:1256 DD 71 03
                                                                                                         ix, is_mario_alive
hl, soft_sprite_ram+4Ch
(ix+0), 1
(ix+3), c
(hl), c
                                                                                        ld
ld
                                                                                                                                                                                                      ; flag mario is alive
                                                                                        ld
                                                                                                                                                                                                      ; mario sprite X
                                                                                       ld
inc
0000:1259 71
0000:125A 2C
0000:1259 71

0000:1258 2C

0000:1258 DD 36 07 80

0000:1257 36 80

0000:1261 2C

0000:1262 DD 36 08 02

0000:1266 36 02

0000:1268 2C
                                                                                                          1
(ix+7), 80h; 'Ç'
(h1), 80h; 'Ç'
                                                                                                                                                                                                     ; sprite tile (invalid)
                                                                                        ld
                                                                                        inc
                                                                                                          l
(ix+8), 2
(h1), 2
                                                                                                                                                                                                      ; sprite hflip & palette
                                                                                        ld
                                                                                                          (ix+5), b
(hl), b
(ix+0Fh),
0000:1269 DD 70 05
0000:126C 70
0000:126D DD 36 0F 01
                                                                                        ld
ld
                                                                                                                                                                                                      ; sprite Y
                                                                                        ld
0000:1271 21 0A 60
0000:1274 34
0000:1275 11 01 06
                                                                                       ld
inc
ld
                                                                                                          hl, main_sequencer
(hl)
de, loc_0_601
sub_0_309F
```

call ret

0000:1278 CD 9F 30 0000:127B C9

```
0000:127C
0000:1270
                                                                                                                                                                                                          ; DATA XREF: 0000:071C\u00f10
; 0000:0750\u00f10
 0000:127
                                                   died_in_gameplay:
 0000:127C CD BD 1D
0000:127C
                                                                                                            sub_0_1DBD
0000:127F 3A 9D 63
                                                                                                            a, (unk_0_639D)
28h
                                                                                         ld
0000:1271 SA 35
0000:1282 EF
0000:1282
0000:1283 8B 12
                                                                                         rst
                                                                                                                                                                                                          ; go!
                                                                                         .dw delay_before_spin
                                                                                                                                                                                                          ; Jump Table
0000:1285 AC 12
0000:1287 DE 12
0000:1289 00 00
0000:128B
                                                                                         .dw mario_death_spin
.dw dead_mario_lying_down
.dw 0
0000:128B

0000:128B

0000:128B DF

0000:128C 21 4D 69

0000:128F 3E F0

0000:1291 CB 16

0000:1293 1F

0000:1295 21 9D 63
                                                                                                                                                                                                          ; DATA XREF: 0000:1283<sup>o</sup>; wait for 8-bit countdown
                                                    delay_before_spin:
                                                                                         rst
ld
                                                                                                           hl, soft_sprite_ram+4Dh
a, 0F0h; '-'
                                                                                         ld
rl
                                                                                                                                                                                                          ; mario sprite << 1
                                                                                         rra
                                                                                         1d
                                                                                                             (hl),
0000:1295 21 9D 63
0000:1298 34
0000:1299 3E 0D
0000:129B 32 9E 63
0000:129B 32 9E 63
0000:12A0 32 09 60
                                                                                         ld
inc
                                                                                                            hl, unk_0_639D
(hl)
a, 0Dh
                                                                                                            (unk_0_639E), a
                                                                                         ld
0000:129B 32 9E 63

0000:129E 3E 08

0000:12AO 32 09 60

0000:12A3 CD BD 30

0000:12A6 3E 03

0000:12AB 22 88 60

0000:12AC
                                                                                         ld
ld
                                                                                                             a, 8
(eight_bit_countdown), a
                                                                                         call
                                                                                                            sub_0_30BD
                                                                                         ld
ld
                                                                                                            (unk_0_6088), a
                                                                                         ret
0000:12AC
0000:12AC
0000:12AC DF
0000:12AD 3E 08
0000:12AF 32 09 60
0000:12B2 21 9E 63
0000:12B5 35
                                                                                                                                                                                                          ; DATA XREF: 0000:1285\u00e1o o ; wait for 8-bit countdown
                                                    mario_death_spin:
                                                                                                            18h
                                                                                         rst
                                                                                         ld
                                                                                         ld
ld
dec
                                                                                                            (eight_bit_countdown), a
hl, unk_0_639E
(hl)
0000:12B5 35

0000:12B6 CA CB 12

0000:12B0 P21 4D 69

0000:12BD 1F

0000:12BD 1F

0000:12BD 1F

0000:12C0 1F

0000:12C1 47

0000:12C2 AE

0000:12C2 AE

0000:12C5 78

0000:12C6 E6 80

0000:12C8 AE

0000:12C8 C9

0000:12C8 C9
                                                                                                           z, loc_0_12CB
hl, soft_sprite_ram+4Dh
a, (hl)
                                                                                         jp
ld
ld
                                                                                         rra
ld
                                                                                                            a, 2
                                                                                         rra
ld
                                                                                                            b, a (hl)
                                                                                         xor
ld
                                                                                                             (hl), a
                                                                                         inc
ld
                                                                                                            a, b
80h; 'Ç
(hl)
                                                                                                                                                                                                          ; flip mario upside down?
                                                                                         and
                                                                                         xor
ld
                                                                                         ret
0000:12CB
0000:12CB
0000:12CB
                                                                                                                                                                                                          ; CODE XREF: 0000:12B6 j
                                                    loc_0_12CB:
 0000:12CB 21 4D 69
                                                                                                            hl, soft\_sprite\_ram+4Dh
                                                                                         ld
0000:12CE 3E F4
0000:12D0 CB 16
0000:12D2 1F
0000:12D3 77
                                                                                         ld
rl
rra
                                                                                                            a, 01
(hl)
                                                                                                                  0F4h ;
                                                                                                             (hl),
                                                                                         ld
ld
0000:12D3 77
0000:12D4 21 9D 63
0000:12D7 34
0000:12D8 3E 80
0000:12DB 32 09 60
0000:12DD C9
0000:12DE
0000:12DE
                                                                                                            hl, unk_0_639D
(hl)
                                                                                         inc
ld
                                                                                                                   .)
80h ; 'Ç'
                                                                                                            (eight_bit_countdown), a
                                                                                         ld
                                                                                                                                                                                                          ; DATA XREF: 0000:1287\u00e9o
; wait for 8-bit countdown
0000:12DE
                                                   dead_mario_lying_down:
0000:12DE DF 0000:12DE DF 0000:12DF CD DB 30 0000:12E2 21 0A 60 0000:12E5 A7 0000:12E8 A7 0000:12EC 34 0E 0000:12EC 34
                                                                                         rst
call
                                                                                                            18h
                                                                                                             sub_0_30DB
                                                                                                            hl, main_sequencer
a, (unk_0_600E)
a
                                                                                         ld
                                                                                         ld
and
                                                                                                            z, loc_0_12ED (hl)
                                                                                         jp
inc
0000:12EC 34

0000:12ED

0000:12ED 34

0000:12EE 2B

0000:12EF 36 01

0000:12F1 C9

0000:12F2
                                                    loc_0_12ED:
                                                                                                                                                                                                          ; CODE XREF: 0000:12E9<sup>†</sup>j
                                                                                         inc
                                                                                                             (hl)
                                                                                         dec
                                                                                                            (hl), 1
                                                                                         1d
0000:12F2
0000:12F2
0000:12F2 CD 1C 01
0000:12F5 AF
0000:12F5 32 CC 62
0000:12F9 21 28 62
0000:12F0 75
0000:12FD 7E
0000:12FD 11 40 60
0000:1301 01 08 00
0000:1304 ED BO
0000:1304 PD BO
0000:1307
                                                    copy_current_lvl_data_t
call
                                                                                                          to_P1:
stop_sound
                                                                                                                                                                                                          ; DATA XREF: 0000:071E o
                                                                                         xor
ld
                                                                                                          \unk_0_622C), a
hl, life_no
(hl)
a, (hl)
de, pl_level_data
bc, 8
                                                                                                            a
(unk_0_622C), a
                                                                                         ld
dec
                                                                                         1d
                                                                                         ldir
0000:1306 A7
0000:1307
0000:1307
0000:1307 C2 34 13
0000:130A 3E 01
0000:130A 3E 01
0000:131C 21 B2 60
0000:1315 22 D4 76
0000:1315 3A 0F 60
0000:1318 A7
0000:1318 10 20
0000:1318 CD 9F 30
0000:1322 2
0000:1322 2
                                                                                         and
                                                    loc_0_1307:
                                                                                                           nz, loc_0_1334
a, 1
hl, unk_0_60B2
sub_0_13CA
hl, VRAM_start+2D4h
a, (two_players)
                                                                                         jp
ld
                                                                                         ld
call
ld
ld
                                                                                         and
jr
ld
                                                                                                             a
z, loc_0_1322
                                                                                                            de,
                                                                                                             sub_0_309F
                                                                                         call
dec
                                                                                                                                                                                                       ; CODE XREF: 0000:1319<sup>†</sup> j
                                                    loc_0_1322:
0000:1322
0000:1322 CD 26 18
0000:1325 11 00 03
0000:1328 CD 9F 30
                                                                                         call
ld
call
                                                                                                            clear_14x5_HL
de, 300h
sub_0_309F
0000:132B 21 09 60
0000:132E 36 C0
                                                                                                            hl, eight_bit_countdown
(hl), 0C0h; 'L'
                                                                                         1d
                                                                                         ld
```

```
0000:1330 23
0000:1331 36 10
0000:1331 36 10
0000:1334
0000:1334
0000:1334 0E 08
0000:1336 3A 0F 60
0000:1336 A3 F 13
0000:1330 DE 17
0000:133F
0000:133F
0000:133F
0000:133F
                                                                                                                                                                                                              inc
ld
                                                                                                                                                                                                                                                         (hl), 10h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:1307 j
                                                                                                                        loc_0_1334:
                                                                                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                        c, 8
a, (two_players)
                                                                                                                                                                                                              and
                                                                                                                                                                                                                                                         z, loc_0_133F
                                                                                                                                                                                                              jp
ld
                                                                                                                         loc_0_133F:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:133A^j
  0000:133F 79
0000:1340 32 0A 60
0000:1343 C9
0000:1344
                                                                                                                                                                                                              1d
                                                                                                                                                                                                                                                        a, c
(main_sequencer), a
                                                                                                                                                                                                              ld
                                                                                                                                                                                                              ret
0000:1343 C9
0000:1344 CD 1C 01
0000:1344 TP
0000:1344 B2 22 62
0000:1348 B2 1 28 62
0000:1348 B2 1 28 62
0000:1348 B3 22 C6
0000:1348 B3 20 C6
0000:1355 D1 48 60
0000:1355 D1 48 60
0000:1355 D2 7F 13
0000:1356 D B0
0000:1361 DD PF 30
0000:1361 DD PF 30
0000:1370 D PF 30
0000:1370 D PF 30
0000:1370 D B0 60
                                                                                                                         copy_current_lvl_data_to_P2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0720 o
                                                                                                                                                                                                                                                        stop_sound
                                                                                                                                                                                                             call
                                                                                                                                                                                                              xor
                                                                                                                                                                                                                                                        (unk_0_622C), a
hl, life_no
(hl)
                                                                                                                                                                                                              ld
ld
                                                                                                                                                                                                                                                       (nl)
a, (hl)
de, p2_level_data
bc, 8
                                                                                                                                                                                                              dec
ld
                                                                                                                                                                                                             ld
ld
                                                                                                                                                                                                             ldir
                                                                                                                                                                                                             and
jp
ld
ld
                                                                                                                                                                                                                                                       nz, loc_0_137F
a, 3
hl, unk_0_60B5
                                                                                                                                                                                                                                                        sub_0_13CA
de, 303h
sub_0_309F
                                                                                                                                                                                                             call
ld
call
ld
                                                                                                                                                                                                                                                         de.
                                                                                                                                                                                                                                                        sub_0_309F
hl, VRAM_start+2D3h
clear_14x5_HL
                                                                                                                                                                                                             call
ld
call
                                                                                                                                                                                                                                                        hl, eight_bit_countdown (hl), OCOh; 'L'
                                                                                                                                                                                                              1d
                                                                                                                                                                                                             ld
inc
                                                                                                                                                                                                                                                        hl
(hl), 11h
                                                                                                                                                                                                              ret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:1359<sup>†</sup>j; set to switch players?
   0000:137F
                                                                                                                        loc 0 137F:
 0000:137F
0000:137F
0000:1381 3A 40 60
0000:1384 A7
0000:1385 C2 8A 13
0000:1388 0E 08
0000:138A
0000:138A
                                                                                                                                                                                                                                                        c, 17h
a, (p1_level_data)
                                                                                                                                                                                                              14
                                                                                                                                                                                                             ld
and
                                                                                                                                                                                                                                                        nz, loc_0_138A
                                                                                                                                                                                                              jp
ld
                                                                                                                        loc_0_138A:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; CODE XREF: 0000:1385<sup>†</sup>j
  0000:138A 79
0000:138B 32 0A 60
0000:138E C9
0000:138F
                                                                                                                                                                                                              1d
                                                                                                                                                                                                              ld
                                                                                                                                                                                                                                                          (main_sequencer), a
                                                                                                                                                                                                             ret
0000:138F

0000:138F

0000:138F

0000:138F DF

0000:1390 OE 17

0000:1392 3A 48 60

0000:1395

0000:1395 34

0000:1395 A7

0000:1397 C2 9C 13

0000:139A DE 14

0000:139C
                                                                                                                        p1_game_over:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:0722\u00e1o
; wait for 8-bit countdown
                                                                                                                                                                                                                                                        18h
c, 17h
a, (p2_level_data)
                                                                                                                                                                                                              ld
                                                                                                                                                                                                              ld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; CODE XREF: 0000:13A7-j
                                                                                                                         loc_0_1395:
                                                                                                                                                                                                              inc
                                                                                                                                                                                                                                                         (hl)
                                                                                                                                                                                                              and
                                                                                                                                                                                                                                                        nz, loc_0_139C
c, 14h
                                                                                                                                                                                                              jp
ld
0000:139A DE 14

0000:139C

0000:139C

0000:139C 79

0000:139D 32 0A 60

0000:13A1

0000:13A1

0000:13A1
                                                                                                                         loc_0_139C:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:13971j
                                                                                                                                                                                                                                                         (main_sequencer), a
                                                                                                                                                                                                              ld
                                                                                                                                                                                                              ret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:0724<sup>†</sup>o
0000:13A1 DF 0000:13A2 OE 17 0000:13A2 OE 17 0000:13A4 3A 40 60 0000:13AA 0000:13AA 0000:13AA 0000:13AA 3A 26 60 0000:13AA 20 00000:13AA 20 0000:13AA 20 00000:13AA 20 0000:13AA 20 0000:13A
                                                                                                                        p2 game over:
                                                                                                                                                                                                              rst
ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; wait for 8-bit countdown
                                                                                                                                                                                                                                                        c, 17h
a, (p1_level_data)
loc_0_1395
                                                                                                                                                                                                              jр
                                                                                                                        loc_0_13AA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:0726 o
                                                                                                                                                                                                              ld
                                                                                                                                                                                                                                                                          (upright)
                                                                                                                                                                                                             ld
xor
                                                                                                                                                                                                                                                          (flipscreen), a
                                                                                                                                                                                                                                                          (main_sequencer), a hl, 101h
                                                                                                                                                                                                              ld
ld
                                                                                                                                                                                                             ld
ret
                                                                                                                                                                                                                                                           (unk_0_600D), hl
0000:13BB 0000:13BB 0000:13BB 0000:13BB AF 0000:13BB 32 0D 60 0000:13BC 32 0A 60 0000:13C2 32 0A 60 0000:13C6 32 82 7D 0000:13CA 1 C6 61 0000:13CA 0000:13CA 1 C6 61 0000:13CA 0000:13CA 1 C6 61 0000:13CA 1 C6 61 0000:13CA 0000:13CA 0000:13CA 1 C6 61 0
                                                                                                                        loc_0_13BB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0728 o
                                                                                                                                                                                                                                                        a
  (unk_0_600D), a
  (unk_0_600E), a
  (main_sequencer), a
                                                                                                                                                                                                              xor
                                                                                                                                                                                                            ld
ld
ld
                                                                                                                                                                                                              inc
ld
                                                                                                                                                                                                                                                         (flipscreen), a
                                                                                                                                                                                                             SUBROUTINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:130F<sup>†</sup>p; 0000:1361<sup>†</sup>p
                                                                                                                        sub_0_13CA:
                                                                                                                                                                                                                                                        de, unk_0_61C6 (de), a
                                                                                                                                                                                                              ld
   0000:13CA
0000:13CD 12
0000:13CE CF
                                                                                                                                                                                                              ld
rst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; return if attract mode
 0000:13CE CF
0000:13CF 13
0000:13D0 01 03 00
0000:13D3 ED B0
0000:13D5 06 03
0000:13D7 21 B1 61
                                                                                                                                                                                                              inc
ld
                                                                                                                                                                                                                                                        de
                                                                                                                                                                                                                                                        bc, 3
                                                                                                                                                                                                                                                        b, 3
hl, unk_0_61B1
                                                                                                                                                                                                              ld
                                                                                                                                                                                                              1d
  0000:13DA
```

```
; CODE XREF: sub_0_13CA+1F|j
                                                   loc_0_13DA:
 0000:13DA 1B
 0000:13DA 1B
0000:13DB 1A
0000:13DC 0F
0000:13DD 0F
                                                                                        ld
                                                                                                           a, (de)
                                                                                        rrca
0000:13DE 0F
0000:13DE 0F
0000:13DF 0F
0000:13E0 E6 0F
0000:13E2 77
0000:13E3 23
                                                                                        rrca
                                                                                        rrca
and
ld
                                                                                                          OFh (hl), a
                                                                                        inc
                                                                                                          hl
0000:13E3 23
0000:13E4 1A
0000:13E5 E6 0F
0000:13E7 77
0000:13E8 23
0000:13E9 10 EF
0000:13EB 06 0E
                                                                                                           a, (de)
OFh
(hl), a
                                                                                        ld
and
ld
                                                                                        djnz
ld
                                                                                                           loc_0_13DA
                                                                                                          b, OEh
0000:13ED
0000:13ED 36 10
0000:13EF 23
0000:13FF 23
0000:13FF 23 6 3F
0000:13F2 36 3F
0000:13F2 36 3F
0000:13F2 21 A5 61
0000:13F6 21 A5 61
0000:13FC 0000:13FC
0000:13FC 1A
0000:13FC 1A
0000:13FD 96
0000:13FF 13
0000:13FF 13
0000:13FF 13
                                                  loc_0_13ED:
                                                                                                                                                                                                    ; CODE XREF: sub_0_13CA+26 j
                                                                                        ld
                                                                                                           (hl), 10h
                                                                                        inc
                                                                                                           hl
                                                                                                          nl loc_0_13ED (hl), 3Fh; '?' b, 5 hl, high_score_tbl_ram+0A5h
                                                                                        dinz
                                                                                        ld
ld
                                                                                        ld
                                                                                        ld
                                                                                                          de, unk_0_61C7
                                                                                                                                                                                                    ; CODE XREF: sub_0_13CA+51|j
                                                   loc_0_13FC:
                                                                                        ld
                                                                                                                (de)
                                                                                                          a, (d
(hl)
                                                                                        sub
inc
inc
ld
                                                                                                          hl
de
                                                                                                          a, (de)
0000:1401 9E
0000:1402 23
0000:1403 13
0000:1404 1A
                                                                                        sbc
inc
                                                                                                          <mark>a</mark>,
hl
                                                                                                                 (hl)
                                                                                                          de
                                                                                        inc
ld
                                                                                                          a, (de)
a, (hl)
 0000:1405 9E
0000:1406 D8
0000:1407 C5
                                                                                        sbc
ret
                                                                                        push
ld
 0000:1408 06 19
0000:140A
0000:140A
0000:140A 4E
                                                                                                          b. 19h
                                                                                                                                                                                                    ; CODE XREF: sub_0_13CA+47|j
                                                   loc_0_140A:
                                                                                                          c, (hl)
a, (de)
                                                                                        ld
0000:140A 4E
0000:140B 1A
0000:140C 77
0000:140D 79
0000:140E 12
0000:1410 1B
0000:1411 10 F7
0000:1411 0 F7
0000:1416 09
0000:1417 EB
0000:1418 09
0000:1419 EB
                                                                                        ld
                                                                                        ld
ld
                                                                                                           (hl), a
                                                                                                           a, c
(de), a
                                                                                        ld
                                                                                        dec
                                                                                                          h1
                                                                                        dec
djnz
                                                                                                          de
loc_0_140A
                                                                                                          bc, OFFF5h
hl, bc
de, hl
hl, bc
                                                                                        1d
                                                                                        add
ex
add
 0000:1419 EB
0000:141A C1
0000:141B 10 DF
0000:141D C9
                                                                                        ex
                                                                                                           de, hl
                                                                                        pop
djnz
                                                                                                          loc_0_13FC
                                                                                        ret
 0000:141D
0000:141D
0000:141E
                                                   ; End of function sub_0_13CA
0000:141E

0000:141E

0000:141E CD 16 06

0000:1421 DF

0000:1422 DF

0000:1425 3E 00

0000:1427 32 DE 60

0000:1427 32 DE 60

0000:1428 12 1C 61

0000:1430 11 22 00

0000:1433 06 05

0000:1435 3E 01

0000:1437 BE

0000:1437 BE

0000:1437 BE

0000:1438 CA 59 14
                                                   draw_name_registered:
                                                                                                                                                                                                       ; DATA XREF: 0000:072A10
                                                                                        call
rst
                                                                                                          display_credits
                                                                                                                                                                                                      ; wait for 8-bit countdown
                                                                                                          clear_visible_area_and_sprites
                                                                                        call
                                                                                        ld
ld
ld
                                                                                                            (unk_0_600E), a
(unk_0_600D), a
                                                                                                          hl, high_score_tbl_ram+1Ch
de, 22h; '"'
b, 5
a, 1
                                                                                        ld
                                                                                        ld
ld
                                                                                        ld
                                                   loc_0_1437:
                                                                                                                                                                                                      ; CODE XREF: 0000:143C-j
                                                                                                           (hl)
                                                                                        ср
                                                                                                          z, loc_0_1459
hl, de
                                                                                        jp
add
djnz
ld
0000:1438 CA 59 14

0000:143B 19

0000:143C 10 F9

0000:144E 21 1C 61

0000:1441 06 05

0000:1443 3E 03

0000:1445

0000:1445 BP
                                                                                                          n1, de
loc_0_1437
hl, high_score_tbl_ram+<mark>1Ch</mark>
                                                                                                          b, 5
a, 3
                                                                                        ld
                                                                                        ld
                                                   loc_0_1445:
                                                                                                                                                                                                      ; CODE XREF: 0000:144A-j
0000:1445 BE
0000:1445 BE
0000:1449 19
0000:1444 10 F9
0000:144C C3 75 14
0000:144F
0000:144F
0000:144F
                                                                                        ср
                                                                                                           (hl)
                                                                                                          z, loc_0_144F
hl, de
loc_0_1445
loc_0_1475
                                                                                        jp
add
                                                                                        djnz
                                                   loc_0_144F:
                                                                                                                                                                                                      ; CODE XREF: 0000:1446†j
 0000:144F 3E 01
0000:1451 32 0E 60
0000:1454 32 0D 60
0000:1457 3E 00
                                                                                        1d
                                                                                        ld
ld
                                                                                                           (unk_0_600E), a
(unk_0_600D), a
0000:1457 3E 00
0000:1459
0000:1459 21 26 60
0000:1455 B6
0000:145D 32 82 7D
0000:146D 32 09 60
0000:146C 32 09 60
0000:1465 21 0A 60
0000:1468 34
0000:1469 11 0D 03
0000:146C 06 0C
0000:146E
                                                                                        ld
                                                    loc_0_1459:
                                                                                                                                                                                                      ; CODE XREF: 0000:1438 j
                                                                                        ld
                                                                                                          hl, upright (hl)
                                                                                        or
1d
                                                                                                          (flipscreen), a
                                                                                        ld
ld
                                                                                                           a, 0
(eight_bit_countdown), a
                                                                                                          hl, main_sequencer
(hl)
de, 30Dh
b, 0Ch
                                                                                        ld
                                                                                        ld
0000:146E
0000:146E CD 9F 30
0000:1471 13
0000:1472 10 FA
0000:1474 C9
0000:1475
                                                   loc_0_146E:
                                                                                                                                                                                                      ; CODE XREF: 0000:1472|j
                                                                                        call
                                                                                                           sub_0_309F
                                                                                                           loc_0_146E
                                                                                        djnz
 0000:1475
                                                   loc_0_1475:
                                                                                                                                                                                                       ; CODE XREF: 0000:144C^j
```

```
0000:1475 3E 01
0000:1477 32 82 7D
0000:1477 32 05 60
0000:1477 32 07 60
0000:1470 32 07 60
0000:1480 3E 00
0000:1485 C9
0000:1486
0000:1486
0000:1486
                                                                                                                                                                                                                                                                                                                 ; set attract mode flag
                                                                                                                                                                     (main_sequencer), a
                                                                                                                                         ld
                                                                               do initials entry:
                                                                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:072C1o
  0000:1486
  0000:1486 CD 16 06
0000:1489 21 09 60
0000:148C 7E
                                                                                                                                        call
ld
ld
                                                                                                                                                                    display_credits
hl, eight_bit_countdown
a, (hl)
0000:148C 7E
0000:148B A7
0000:148B A7
0000:148B C2 DC 14
0000:1491 32 86 7D
0000:1497 36 01
0000:1497 36 0A
0000:1498 23
0000:149F 36 00
0000:149F 36 00
0000:14A1 23
0000:14A2 36 1D
0000:14A2 36 1D
0000:14A3 36 1E
0000:14A3 36 3E
0000:14A3 36 3E
0000:14A3 36 3E
0000:14A3 23
                                                                                                                                         and
                                                                                                                                                                   a
nz, loc_0_14DC
(palette_bank), a
(palette_bank+1), a
(hl), 1
hl, unk_0_6030
(hl), 0Ah
                                                                                                                                         jp
ld
                                                                                                                                         ld
                                                                                                                                        ld
ld
ld
                                                                                                                                         inc
                                                                                                                                                                    hl
                                                                                                                                        ld
inc
ld
                                                                                                                                                                      (hl), 0
                                                                                                                                                                    hl
(hl), 10h
                                                                                                                                         inc
                                                                                                                                                                    hl
                                                                                                                                                                    hi
(hl), 1Eh
hl
(hl), 3Eh; '>'
                                                                                                                                        ld
inc
ld
inc
                                                                                                                                                                   nl (hl), 0 hl, VRAM_start+1E8h (unk_0_6036), hl hl, high_score_tbl_ram+1Ch a, (unk_0_600E)
                                                                                                                                        ld
ld
ld
 0000:14B3 21 1C 61
0000:14B6 3A 0E 60
0000:14B9 07
0000:14BA 3C
                                                                                                                                        ld
ld
rlca
                                                                                                                                         inc
  0000:14BA 3C
0000:14BB 4F
0000:14BC 11 22 00
0000:14BF 06 04
                                                                                                                                                                    c, a
de, 22h; '"'
b, 4
                                                                                                                                         ld
                                                                                                                                        ld
ld
  0000:14C1
 0000:14C1
0000:14C1
0000:14C1 7E
0000:14C2 B9
0000:14C3 CA C9 14
0000:14C6 19
0000:14C7 10 F8
                                                                                loc_0_14C1:
                                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:14C7-j
                                                                                                                                         ld
                                                                                                                                                                    a, (hl)
                                                                                                                                        cp
jp
add
                                                                                                                                                                      z, loc_0_14C9
                                                                                                                                                                    hl, de
loc_0_14C1
                                                                                                                                         add
djnz
  0000:14C9
0000:14C9
                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:14C3<sup>†</sup>j; point to high score
                                                                               loc 0 14C9:
 0000:14C9
0000:14C9 22 38 60
0000:14CC 11 F3 FF
0000:14CF 19
0000:14D0 22 3A 60
0000:14D3 06 00
0000:14D3 4F 35 60
                                                                                                                                        ld
ld
                                                                                                                                                                     (unk_0_6038), hl
                                                                                                                                                                    de, OFFF3h
hl, de
                                                                                                                                         add
                                                                                                                                         ld
ld
                                                                                                                                                                       (unk_0_603A), hl
                                                                                                                                                                    b, 0
a, (unk_0_6035)
                                                                                                                                         ld
  0000:14D8 4F
0000:14D9 CD FA 15
0000:14DC
0000:14DC
                                                                                                                                         1d
                                                                                                                                                                    sub_0_15FA
                                                                                                                                         call
                                                                                                                                                                                                                                                                                                                   ; high score initial select sprite
                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:148E^j
                                                                               loc_0_14DC:
 0000:14DC 21 34 60
0000:14DF 35
0000:14E0 C2 FC 14
0000:14E3 36 3E
0000:14E5 2B
                                                                                                                                        ld
dec
jp
ld
                                                                                                                                                                    hl, unk_0_6034 (hl) nz, loc_0_14FC (hl), 3Eh; '>
                                                                                                                                         dec
                                                                                                                                                                    hl
                                                                                                                                                                    (hl)
z, loc_0_15C6
                                                                                                                                        dec
jp
ld
  0000:14E6 35
0000:14E7 CA C6 15
  0000:14EA 7E
0000:14EB 06 FF
0000:14ED
0000:14ED
                                                                                                                                                                    a, (hl)
b, OFFh
                                                                                                                                         ld
                                                                                loc_0_14ED:
                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:14F0|j
0000:14ED

0000:14ED 04

0000:14ED D6 0A

0000:14F3 C6 0A

0000:14F3 C6 0A

0000:14F5 32 52 75

0000:14F8 32 72 75

0000:14FC
                                                                                                                                         inc
                                                                                                                                                                    b
                                                                                                                                         sub
                                                                                                                                                                     0Ah
                                                                                                                                         jp
add
                                                                                                                                                                    nc, loc_0_14ED
a, 0Ah
                                                                                                                                                                      (VRAM_start+152h), a
                                                                                                                                         ld
ld
                                                                                                                                         ld
                                                                                                                                                                    (VRAM_start+172h), a
0000:14FC
0000:14FC 21 30 60
0000:14FF 46
0000:1500 36 0A
0000:1502 3A 10 60
0000:1507 C2 46 15
0000:1507 C2 46 15
                                                                               loc_0_14FC:
                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:14E0<sup>†</sup> †
                                                                                                                                        ld
ld
                                                                                                                                                                   hl, unk_0_6030
b, (hl)
                                                                                                                                                                     (hl), 0Ah
                                                                                                                                                                    a, (controller_in)
7, a
                                                                                                                                         ld
                                                                                                                                        ld
bit
                                                                                                                                                                                                                                                                                                                   ; edge-detected inputs
; button pressed?
; yes, skip
; left/right only
                                                                                                                                                                    nz, jump pressed
                                                                                                                                         jp
and
  0000:150A E6 03
0000:150C C2 14 15
0000:150F 3C
                                                                                                                                         jp
inc
                                                                                                                                                                     nz, left_right_pressed
                                                                                                                                                                                                                                                                                                                    ; yes, skip
                                                                                                                                                                    a
(h1), a
loc_0_158A
 0000:1510 77
0000:1511 C3 8A 15
0000:1514
0000:1514
0000:1514
                                                                                left_right_pressed:
                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:150C|j
  0000:1514 05
0000:1515 CA 1D 15
0000:1518 78
0000:1519 77
                                                                                                                                         dec
                                                                                                                                                                    b
z, loc_0_151D
                                                                                                                                         jp
ld
                                                                                                                                                                    a, b (hl), a
                                                                                                                                         ld
  0000:1519 77
0000:151A C3 8A 15
0000:151D
0000:151D
                                                                                                                                                                     loc 0 158A
                                                                                                                                         jр
                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:1515<sup>†</sup> i
  0000:151D
                                                                                loc 0 151D:
0000:151D CB 4F 0000:151F C2 39 15 0000:1522 3A 35 60 0000:1525 3C 0000:1526 FE 1E 0000:1528 2C 2D 15 0000:1528 3E 00 0000:1528 3E 0000:1528
                                                                                                                                                                   1, a
nz, loc_0_1539
a, (unk_0_6035)
                                                                                                                                         bit
                                                                                                                                         jp
ld
                                                                                                                                         inc
                                                                                                                                         ср
                                                                                                                                                                    nz, loc_0_152D
a, 0
                                                                                                                                         jp
1d
  0000:152D
0000:152D 32 35 60
                                                                                loc_0_152D:
                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:1528<sup>†</sup>j; 0000:153E<sup>†</sup>j ...
  0000:152D
0000:1530 4F
0000:1531 06 00
0000:1533 CD FA 15
                                                                                                                                                                      (unk_0_6035), a
                                                                                                                                         ld
                                                                                                                                         ld
ld
                                                                                                                                                                    c, a
b, 0
                                                                                                                                         call
                                                                                                                                                                      sub_0_15FA
  0000:1536 C3 8A 15
                                                                                                                                         jр
                                                                                                                                                                     loc 0 158A
  0000:1539
```

```
; CODE XREF: 0000:151ff i
0000:1539
                                                 loc 0 1539:
0000:1539 3A 35 60
0000:153C D6 01
0000:153E F2 2D 15
                                                                                                       a, (unk_0_6035)
                                                                                      sub
                                                                                                       p, loc_0_152D
                                                                                      jp
ld
0000:1541 3E 1D
0000:1543 C3 2D 15
0000:1546
0000:1546
                                                                                                       loc 0 152D
                                                                                                                                                                                                 ; CODE XREF: 0000:1507<sup>†</sup> †
0000:1546
                                                 jump_pressed:
0000:1546 3A 35 60
0000:1549 FE 1C
0000:154B CA 6D 15
                                                                                                       a, (unk_0_6035)
1Ch
z, loc_0_156D
                                                                                      ld
                                                                                      ср
                                                                                      jp
cp
jp
ld
0000:154B CA 6D 15

0000:154E FE 1D

0000:1550 CA C6 15

0000:1556 01 88 75

0000:1559 A7

0000:1550 ED 42

0000:155E CA 8A 15

0000:155E OS
                                                                                                       1Dh
z, loc_0_15C6
hl, (unk_0_6036)
bc, VRAM_start+188h
                                                                                      ld
                                                                                      and
                                                                                                      hl, bc
z, loc_0_158A
hl, bc
a, 11h
(hl), a
bc, 0FFE0h
hl, bc
                                                                                      jр
                                                                                      add
0000:155F 09
0000:1560 C6 11
0000:1562 77
0000:1563 01 E0 FF
                                                                                      add
ld
                                                                                      ld
0000:1566 09
                                                                                      add
0000:1566 09
0000:1567
0000:1567 22 36 60
0000:1560 23 8A 15
0000:156D
0000:156D
                                                                                                                                                                                                 ; CODE XREF: 0000:1583 j
                                                  loc_0_1567:
                                                                                                       (unk_0_6036), hl
loc_0_158A
                                                                                      ld
                                                                                      jр
                                                  loc_0_156D:
                                                                                                                                                                                                 ; CODE XREF: 0000:154B†j
0000:156D

0000:156D 2A 36 60

0000:1570 01 20 00

0000:1574 A7

0000:1574 A7

0000:1575 01 08 76

0000:157A C2 86 15

0000:157A C2 86 15
                                                                                                       hl, (unk_0_6036)
bc, 20h; ''
hl, bc
                                                                                      1d
                                                                                     ld
add
                                                                                      and
                                                                                                       bc, VRAM_start+208h
hl, bc
nz, loc_0_1586
hl, VRAM_start+1E8h
                                                                                     ld
sbc
                                                                                      jp
ld
0000:157D 21 E8 75
0000:1580
0000:1580
0000:1580 3E 10
0000:1582 77
0000:1583 C3 67 15
                                                  loc_0_1580:
                                                                                                                                                                                                 ; CODE XREF: 0000:1587/j
                                                                                                       a, 10h
(hl), a
                                                                                      ld
                                                                                      ld
                                                                                                       loc_0_1567
0000:1586
                                                                                                                                                                                                 : CODE XREF: 0000:157A14
0000:1586
                                                  loc 0 1586:
0000:1586
0000:1586 09
0000:1587 C3 80 15
0000:158A
                                                                                     add
                                                                                                       hl, bc
loc_0_1580
                                                                                      jр
0000:158A
0000:158A
0000:158A 21 32 60
                                                                                                                                                                                                  ; CODE XREF: 0000:1511<sup>†</sup>j; 0000:151A<sup>†</sup>j ...
                                                  loc_0_158A:
0000:158A 21 32 60

0000:158B 35

0000:158B C2 F9 15

0000:1591 3A 31 60

0000:1594 A7

0000:1595 C2 B8 15

0000:1598 3E 01

0000:159A 32 31 60

0000:159D 11 BF 01
                                                                                                       hl, unk_0_6032
(hl)
nz, locret_0_15F9
a, (unk_0_6031)
                                                                                      1d
                                                                                      dec
                                                                                      jp
ld
                                                                                      and
jp
ld
                                                                                                       nz, loc_0_15B8
                                                                                                        (unk_0_6031),
                                                                                      ld
                                                                                      ld
                                                                                                       de, byte_0_1BA+5
                                                                                                                                                                                                ; empty/dummy score
0000:1590 11 BF 01
0000:1500
0000:15A0
0000:15A0 FD 2A 38 60
0000:15A4 FD 6E 04
0000:15A7 FD 66 05
0000:15AB E5
                                                                                                                                                                                                 ; CODE XREF: 0000:15C3|j; ptr high score
                                                  loc_0_15A0:
                                                                                                       iy, (unk_0_6038)
1, (iy+4)
h, (iy+5)
h1
                                                                                      ld
                                                                                     ld
ld
                                                                                      push
0000:15AA E5
0000:15AB DD E1
0000:15AD CD 7C 05
0000:15B0 3E 10
0000:15B2 32 32 60
                                                                                     pop
call
ld
ld
                                                                                                       display_score_HL
                                                                                                       a, 10h
(unk_0_6032), a
locret_0_15F9
0000:15B5 C3 F9 15
0000:15B8
0000:15B8
0000:15B8
                                                                                      jр
                                                 loc 0 15B8:
                                                                                                                                                                                                 ; CODE XREF: 0000:1595<sup>†</sup> i
0000:1588 AF
0000:1588 AF
0000:1586 ED 5B 38 60
0000:1500 13
0000:1501 13
0000:1502 13
0000:1503 03 AO 15
0000:1506
                                                                                      ld
ld
                                                                                                       (unk_0_6031), a
de, (unk_0_6038)
                                                                                                                                                                                                ; point to high score
                                                                                      inc
                                                                                                       de
                                                                                     inc
                                                                                                       loc_0_15A0
                                                                                      qŗ
0000:15C6
0000:15C6
0000:15C6 ED 5B 38 60
0000:15C6
                                                 loc_0_15C6:
                                                                                                                                                                                                  ; CODE XREF: 0000:14E7 j
                                                                                                                                                                                                  ; 0000:1550<sup>†</sup>j
; point to high score
                                                                                                       de, (unk_0_6038)
0000:15C6
0000:15CB 12
0000:15CB 12
0000:15CC 21 09 60
0000:15CF 36 80
0000:15D1 23
0000:15D2 30
0000:15D3 06 0C
0000:15D3 06 0C
0000:15D8 FD 2A 3A 60
0000:15DC 11 E0 FF
0000:15DF
                                                                                      ld
                                                                                      xor
ld
ld
                                                                                                       a
(de),
                                                                                                       (de), a
hl, eight_bit_countdown
(hl), 80h; 'Ç'
                                                                                     ld
inc
dec
ld
                                                                                                       hl
(hl)
                                                                                                      b, OCh
hl, VRAM_start+1E8h
iy, (unk_0_603A)
de, OFFE0h
                                                                                      ld
                                                                                     ld
ld
0000:15DF
0000:15DF 7E
0000:15DF 7E
0000:15E3 FD 77 00
0000:15E3 FD 23
0000:15E5 19
0000:15E6 10 F7
0000:15E8 06 05
0000:15E8 11 14 03
                                                 loc_0_15DF:
                                                                                                                                                                                                ; CODE XREF: 0000:15E6|j
                                                                                                       a, (hl)
(iy+0), a
                                                                                      1d
                                                                                                       iy
hl, de
loc_0_15DF
                                                                                      inc
                                                                                     add
djnz
                                                                                      1d
                                                                                                       b, 5
de, 314h
                                                                                      ld
0000:15ED
0000:15ED
                                                                                                                                                                                               ; CODE XREF: 0000:15F1|j
                                                  loc_0_15ED:
0000:15ED CD 9F 30
                                                                                      call
                                                                                                       sub_0_309F
0000:15F0 13
0000:15F1 10 FA
0000:15F3 11 1A 03
0000:15F6 CD 9F 30
                                                                                                        de
loc_0_15ED
                                                                                      djnz
                                                                                      ld
                                                                                                       de, 31Ah
sub_0_309F
                                                                                                       de
                                                                                     call
0000:15F9
```

```
; CODE XREF: 0000:158E<sup>†</sup>j; 0000:15B5<sup>†</sup>j
0000:15F9
                                           locret_0_15F9:
0000:15F9 C9
0000:15F9
                                                                        SUBROUTINE
0000:15FA
0000:15FA
0000:15FA
0000:15FA D5
                                                                                                                                                                           ; CODE XREF: 0000:14D9\p; 0000:1533\p
                                            sub_0_15FA:
0000:15FA
                                                                           push
                                                                                           de
0000:15FB E5
0000:15FC CB 21
0000:15FC 21 0F 36
0000:1601 09
0000:1602 EB
0000:1603 21 74 69
0000:1606 1A
                                                                           push
sla
                                                                                           hl
                                                                                           hl, letter_coords
                                                                            ld
                                                                                          hl, bc
de, hl
hl, soft_sprite_ram+74h
a, (de)
de
                                                                            add
                                                                            ex
ld
                                                                                                                                                                           ; sprite for initials entry
                                                                            ld
0000:1606 1A
0000:1607 13
0000:1608 77
0000:1609 23
0000:160A 36 72
0000:160C 23
0000:160F 23
                                                                            ld
                                                                                             (hl), a
                                                                                                                                                                           ; X coordinate
                                                                            inc
                                                                                           hl
                                                                                            (hl), 72h; 'r'
                                                                            ld
                                                                                                                                                                           ; tile
                                                                            ld
                                                                                             (hl), OCh
                                                                                                                                                                           ; palette
                                                                                          hl
a, (de)
                                                                            inc
ld
                                                                                           a, (de)
(hl), a
hl
0000:1610 1A
0000:1611 77
0000:1610 1A
0000:1611 77
0000:1612 E1
0000:1613 D1
0000:1614 C9
0000:1614
0000:1615
                                                                            ld
                                                                                                                                                                           ; Y coordinate
                                                                            pop
                                                                            pop
                                                                                           de
                                            ; End of function sub_0_15FA
0000:1615

0000:1615

0000:1615 CD BD 30

0000:1618 3A 27 62

0000:1618 0F

0000:161F 3A 88 63

0000:161F 3A 88 63

0000:1622 EF

0000:1623 54 16

0000:1623 70 16

0000:1627 8A 16

0000:1629 32 17

0000:1629 57 17

0000:1629 58 17

0000:1629 58 17
0000:1615
                                            mario_pauline_reunion:
                                                                                                                                                                           ; DATA XREF: 0000:072E o
                                                                                         sub_0_30BD
                                                                           call
ld
                                                                                           a, (level_type)
                                                                            rrca
                                                                                           nc, loc_0_162F
a, (unk_0_6388)
28h
                                                                            jp
ld
                                                                            rst
                                                                                                                                                                           ; go!
                                                                            .dw loc_0_1654
                                                                                                                                                                           ; Jump table
                                                                            .dw loc_0_1670 .dw loc_0_168A
                                                                            .dw loc_0_1732
.dw loc_0_1757
                                                                            .dw loc_0_178E
0000:162F
0000:162F
0000:162F
                                                                                                                                                                           ; CODE XREF: 0000:161C↑j
                                            loc_0_162F:
0000:162F 0F
0000:1630 D2 41 16
0000:1633 3A 88 63
0000:1636 EF
                                                                            rrca
                                                                                           nc, loc_0_1641
a, (unk_0_6388)
28h
                                                                            rst
                                                                                                                                                                           ; go!
0000:1636
0000:1636
0000:1637 A3 16
0000:1639 BB 16
0000:163B 32 17
0000:163D 57 17
0000:163F 8E 17
0000:1641
                                                                            .dw loc_0_16A3
.dw loc_0_16BB
.dw loc_0_1732
                                                                                                                                                                           ; Jump table
                                                                             .dw loc 0 1757
 0000:1641
0000:1641

0000:1641 CD BD 1D

0000:1644 3A 88 63

0000:1647 EF

0000:1647

0000:1648 B6 17

0000:1648 69 30

0000:1642 39 18

0000:1642 FE 18
                                            loc_0_1641:
                                                                                                                                                                           ; CODE XREF: 0000:16301i
                                                                                           sub_0_1DBD
a, (unk_0_6388)
28h
                                                                            call
ld
                                                                                                                                                                           ; go1
                                                                            rst
                                                                            .dw unk_0_17B6
                                                                                                                                                                           ; Jump table
                                                                            .dw loc_0_1786
.dw loc_0_3069
.dw loc_0_1839
.dw loc_0_186F
.dw loc_0_1880
.dw loc_0_18C6
0000:164E 6F 18
0000:1650 80 18
0000:1652 C6 18
0000:1654
0000:1654
0000:1654
0000:1654 CD 08 17
                                            loc_0_1654:
                                                                                                                                                                           ; DATA XREF: 0000:162310
                                                                            call
                                                                                           sub 0 1708
0000:1657 21 5C 38
0000:165A CD 4E 00
0000:165D 3E 20
0000:165F 32 09 60
                                                                                           hl, kong_normal_spr
copy_sprites_2_11_data
                                                                            1d
                                                                            call
                                                                                           (eight_bit_countdown), a
                                                                            ld
0000:1662
0000:1662
0000:1662 21 88 63
                                            loc_0_1662:
                                                                                                                                                                           ; CODE XREF: 0000:16A0|j
                                                                                           hl, unk_0_6388 (hl)
                                                                            ld
0000:1662 21 88 63

0000:1665 34

0000:1666 3E 01

0000:1668 F7

0000:1669 21 0B 69

0000:166C 0E FC

0000:166F C9

0000:1670
                                                                            inc
                                                                           ld
rst
                                                                                                                                                                              return if level bit not set
                                                                                                                                                                           ; sprite #2, x coord
; -4
                                                                                           hl, soft_sprite_ram+0Bh
c, 0FCh; '3'
                                                                            ld
ld
                                                                                           38h
                                                                                                                                                                           ; subtract 4 from x coord for 10 sprites
0000:1670
0000:1670
0000:1670
0000:1670
0000:1670 DF
0000:1671 21 32 39
0000:1674 CD 4E 00
0000:1679 32 09 60
0000:1679 32 09 60
0000:1679 32 09 60
0000:1679 34
0000:1680 3E 04
0000:1680 3E 04
0000:1680 3E 04
0000:1688 FF
0000:1689 C9
                                                                                                                                                                           ; DATA XREF: 0000:1625<sup>o</sup>; wait for 8-bit countdown
                                            loc_0_1670:
                                                                                           18h
hl, dk_throw_barrel_spr
                                                                            rst
                                                                            ld
                                                                            call
ld
ld
                                                                                           copy_sprites_2_11_data
                                                                                            a, 20h ; ' '
(eight_bit_countdown), <mark>a</mark>
                                                                            ld
                                                                                           hl, unk_0_6388 (hl)
                                                                            ld
                                                                                           a, 4
30h
                                                                                                                                                                           ; return if level bit not set
                                                                            rst
                                                                                           hl, soft_sprite_ram+0Bh
c, 4
38h
                                                                                                                                                                              sprite #2, x coord
                                                                            ld
                                                                            ld
rst
                                                                                                                                                                           ; add 4 to x coord for 10 sprites
0000:1689 C9
                                                                            ret
0000:168A
 0000:168A
0000:168A
                                                                                                                                                                           ; DATA XREF: 0000:1627\u00e90
                                            loc_0_168A:
0000:168A DF
0000:168B 21 8C 38
0000:168E CD 4E 00
0000:1691 3E 66
0000:1693 32 0C 69
                                                                                           18h
hl, kong_climbing_spr
copy_sprites_2_11_data
                                                                                                                                                                           ; wait for 8-bit countdown
                                                                            rst
                                                                           ld
call
                                                                            ld
                                                                                            a, 66h ; 'f'
(soft_sprite_ram+0Ch), a
                                                                            1d
                                                                                                                                                                          ; sprite #3, y coord
0000:1696 AF
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 21/11/2013, 12:01:24 AM
 0000:1697 32 24 69
                                                                            ld
                                                                                             (soft_sprite_ram+24h), a
 0000:169A 32 2C 69
0000:169D 32 AF 62
0000:16AO C3 62 16
0000:16A3
                                                                                            (soft_sprite_ram+2Ch), a
(unk_0_62AF), a
loc_0_1662
                                                                            ld
                                                                            1d
0000:16A3
0000:16A3
0000:16A3 CD 08 17
0000:16A6 3A 10 69
0000:16A9 D6 3B
                                            loc_0_16A3:
                                                                                                                                                                            ; DATA XREF: 0000:16371o
                                                                                            sub_0_1708
a, (soft_sprite_ram+10h)
3Bh; ';'
                                                                            call
                                                                                                                                                                           ; sprite #4, y coord
                                                                            ld
                                                                            sub
0000:16A9 D6 3B
0000:16AB 21 5C 38
0000:16AE CD 4E 00
0000:16BE 12 08 69
0000:16B6 4F
0000:16B6 21 88 63
0000:16B9 34
                                                                                            hl, kong_normal_spr
copy_sprites_2_11_data
hl, soft_sprite_ram+8
                                                                            ld
call
                                                                                                                                                                            ; sprite #2, y coord
                                                                            ld
ld
                                                                                            c, a
38h
                                                                            rst
ld
                                                                                                                                                                            ; add C to y coord for 10 sprites
                                                                                           hl, unk_0_6388
(hl)
                                                                            inc
0000:16BA C9
0000:16BB
0000:16BB
                                                                            ret
                                                                                                                                                                            ; DATA XREF: 0000:16391o
 0000:16BB
                                            loc_0_16BB:
 0000:16BB AF
0000:16BC 32 AO 62
0000:16BF 3A A3 63
0000:16C2 4F
                                                                                             (unk_0_62A0)
                                                                                            a, (unk_0_63A3)
                                                                            ld
0000:16C2 4F
0000:16C3 3A 10 69
0000:16C6 FE 5A
0000:16C8 D2 E1 16
0000:16CB CB 79
0000:16CD CA D5 16
0000:16D0
0000:16D0
                                                                            ld
                                                                            ld
cp
                                                                                            a, (soft_sprite_ram+10h)
5Ah ; 'Z'
                                                                                                                                                                            ; sprite #4, y coord
                                                                                            nc, loc_0_16E1
                                                                            jp
bit
                                                                                            z, loc_0_16D5
                                                                            jр
                                            loc_0_16D0:
                                                                                                                                                                            ; CODE XREF: 0000:16E8|j
0000:16D0 3E 01
0000:16D2 32 A0 62
0000:16D5
0000:16D5
                                                                                            a, 1
(unk_0_62A0), a
                                                                            1d
                                                                                                                                                                            ; CODE XREF: 0000:16CD†j; 0000:16EB|j
                                            loc 0 16D5:
 0000:16D5 CD 02 26
0000:16D5
0000:16D8 3A A3 63
                                                                                            sub_0_2602
                                                                            call
                                                                                           a, (unk_0_63A3)
c, a
                                                                            ld
 0000:16DB 4F
                                                                            ld
0000:16DB 4F
0000:16DC 21 08 69
0000:16DF FF
0000:16E0 C9
                                                                                            hl, soft_sprite_ram+8
38h
                                                                                                                                                                            ; sprite #2, y coord
; add C to y coord for 10 sprites
                                                                            1d
                                                                            rst
                                                                            ret
 0000:16E1
0000:16E1
0000:16E1
                                            loc_0_16E1:
                                                                                                                                                                            ; CODE XREF: 0000:16C8 j
0000:16E1 FE 5D
0000:16E3 DA EE 16
0000:16E6 CB 79
0000:16E8 CA DO 16
                                                                                            5Dh ; ']'
                                                                            ср
                                                                                            c, loc_0_16EE
7, c
z, loc_0_16D0
                                                                            jр
 0000:16EB C3 D5 16
                                                                            jp
                                                                                            loc_0_16D5
 0000:16EE
0000:16EE
0000:16EE
                                            loc_0_16EE:
                                                                                                                                                                            ; CODE XREF: 0000:16E3<sup>†</sup>j
0000:16EE 21 8C 38
0000:16F1 CD 4E 00
0000:16F4 3E 66
0000:16F6 32 0C 69
                                                                                            hl, kong_climbing_spr
copy_sprites_2_11_data
a, 66h; 'f'
                                                                            1d
                                                                            call
ld
ld
                                                                                            a, 66h ; 'f'
(soft_sprite_ram+0Ch), a
                                                                                                                                                                            ; sprite #4, x coord
0000:16F9 AF
0000:16F9 AF
0000:16FA 32 24 69
0000:16FD 32 2C 69
0000:1700 32 AF 62
0000:1703 21 88 63
0000:1707 C9
0000:1708
                                                                            xor
ld
ld
                                                                                           a
(soft_sprite_ram+24h), a
(soft_sprite_ram+2Ch), a
(unk_0_62AF), a
h1, unk_0_6388
(h1)
                                                                            ld
                                                                            ld
 0000:1708
0000:1708
0000:1708
                                                                           SUBROUTINE
                                                                                                                                                                            ; CODE XREF: 0000:1654\p; 0000:16A3\p
 0000:1708
                                            sub 0 1708:
 0000:1708 CD 1C 01
0000:1708
0000:170B 21 20 6A
                                                                            call
                                                                                            stop_sound
                                                                                            hl, soft_sprite_ram+120h (hl), 80h; 'C'
                                                                            ld
ld
inc
 0000:170E 36 80
0000:1710 23
0000:1711 36 76
0000:1713 23
                                                                                            hl
(hl), 76h; 'v'
                                                                            ld
0000:1713 23
0000:1714 36 09
0000:1716 23
0000:1717 36 20
0000:1719 21 05 69
0000:1712 11 20 00
0000:1712 11 20 00
0000:1724 3E 10
                                                                            inc
                                                                                            hl
                                                                            ld
inc
ld
                                                                                             (hl), 9
                                                                                            hl
(hl), 20h; '
                                                                                           hl, soft_sprite_ram+5
(hl), 13h
hl, VRAM_start+1C4h
                                                                                                                                                                            ; sprite #1, flipy & code
; pauline, front-on
                                                                            ld
                                                                            ld
ld
ld
                                                                                            de, 20h;
a, 10h
                                                                            ld
0000:1726 CD 14 05
0000:1729 21 8A 60
0000:172C 36 07
0000:172E 23
                                                                                            display_3_tiles_HL
hl, unk_0_608A
(hl), 7
                                                                            call
ld
                                                                            ld
 0000:172F 36 03
0000:1731 C9
0000:1731
                                                                            1d
                                                                                             (hl), 3
                                                                            ret
                                            ; End of function sub_0_1708
 0000:1731
0000:1732
0000:1732
0000:1732
0000:1732
0000:1732
0000:1732 CD 6F 30
0000:1732
0000:1735 3A 13 69
0000:1738 FE 2C
                                                                                                                                                                             ; DATA XREF: 0000:1629 o
                                            loc 0 1732:
                                                                                                                                                                             ; 0000:163B1o
                                                                            call
ld
                                                                                            sub_0_306F
                                                                                            a, (soft_sprite_ram+13h)
2Ch ; ','
                                                                            cp
ret
xor
ld
ld
0000:1738 FE 2C

0000:173A DO

0000:173B AF

0000:173C 32 00 69

0000:173F 32 04 69

0000:1742 32 0C 69

0000:1745 3E 6B

0000:1747 32 24 69

0000:174A 3D
                                                                                            nc
                                                                                            (soft_sprite_ram), a
(soft_sprite_ram+4), a
                                                                                                                                                                           ; sprite #0, y coord
; sprite #1, y coord
; sprite #3, y coord
```

ld ld

ld

ld ld inc ld inc ret

0000:1/4A 3D 0000:174B 32 2C 69 0000:174E 21 21 6A 0000:1751 34 0000:1755 34 0000:1755 34

0000:1757 0000:1757

(soft\_sprite\_ram+OCh), a (soft sprite ram+24h), a

(soft\_sprite\_ram+2Ch), a
hl, soft\_sprite\_ram+121h
(hl)

unk\_0\_6388

```
; DATA XREF: 0000:162B\u00e90
; 0000:163D\u00e90
                                              loc_0_1757:
 0000:1757 CD 6F 30
                                                                                call
call
inc
inc
                                                                                                sub_0_306F
sub_0_176C
hl
 0000:1757
 0000:175A CD 6C 17
0000:175D 23
0000:175D 23
0000:175E 13
0000:175F CD 83 17
0000:1762 3E 40
0000:1764 32 09 60
0000:1767 21 88 63
0000:176B C9
0000:176C
                                                                                                de
                                                                                call
ld
ld
                                                                                                sub_0_1783
a, 40h; '@'
(eight_bit_countdown), a
                                                                                ld
                                                                                                hl, unk_0_6388 (hl)
                                                                                ret
 0000:176C
0000:176C
0000:176C
0000:176C
                                                                                SUBROUTINE
                                              sub 0 176C:
                                                                                                                                                                                    ; CODE XREF: 0000:175A p
0000:176C

0000:176C 11 03 00

0000:176F 21 2F 69

0000:1772 06 0A

0000:1774

0000:1774 A7

0000:1775 7E

0000:1775 FD 52
                                                                                                de, 3
hl, soft_sprite_ram+2Fh
b, 0Ah
                                                                                1d
                                                                               ld
ld
                                              loc_0_1774:
                                                                                                                                                                                    ; CODE XREF: sub_0_176C+14|j
                                                                                               a
a, (h1)
h1, de
19h
nc, loc_0_177F
0000:1775 7E
0000:1776 ED 52
0000:1778 FE 19
0000:177A D2 7F 17
0000:177D 36 00
                                                                                ld
                                                                                sbc
                                                                                ср
                                                                                jp
1d
                                                                                                (hl), 0
 0000:177F
0000:177F
0000:177F
0000:177F 2B
0000:1780 10 F2
                                               loc_0_177F:
                                                                                                                                                                                    ; CODE XREF: sub_0_176C+E<sup>†</sup>j
                                                                                                loc_0_1774
                                                                               djnz
 0000:1782 C9
0000:1782
0000:1782
0000:1782
                                              ret; End of function sub_0_176C
 0000:1783
0000:1783
0000:1783
                                                                             SUBROUTINE
 0000:1783
0000:1783 06 0A
0000:1785
0000:1785
                                                                                                                                                                                    ; CODE XREF: 0000:175ffp
                                              sub_0_1783:
                                                                               1d
                                                                                                b, OAh
                                              loc 0 1785:
                                                                                                                                                                                   ; CODE XREF: sub 0 1783+8-j
0000:1785 7E
0000:1786 A7
0000:1787 C2 26 00
0000:178A 19
0000:178B 10 F8
                                                                                ld
                                                                                                a, (hl)
                                                                                and
jp
add
                                                                                                nz, pop_hl_ret
hl, de
loc_0_1785
                                                                                dinz
 0000:178D C9
0000:178D
                                               ; End of function sub_0_1783
 0000:178D
 0000:178E
0000:178E
0000:178E
                                              loc_0_178E:
                                                                                                                                                                                    ; DATA XREF: 0000:162D\u00e10
                                                                                                                                                                                    ; 0000:163F\uparrowo ; wait for 8-bit countdown
 0000:178E DF
 0000:178E DF
0000:178E
0000:178F 2A 2A 62
0000:1792 23
                                                                                ld
                                                                                                hl, (seq_data)
                                                                                inc
                                                                                                hl
0000:1792 23
0000:1793 7E
0000:1794 FE 7F
0000:1796 C2 9D 17
0000:1799 21 73 3A
0000:179C 7E
                                                                                                a, (hl)
7Fh; '
nz, loc_0_179D
                                                                                ld
                                                                                                                                                                                    ; restart repeating levels?
; no, skip
; repeating levels
; get new level
                                                                                cp
jp
ld
                                                                                                hl, level_seq_2
a, (hl)
                                                                                ld
                                                                                                                                                                                    ; CODE XREF: 0000:1796 j
                                               loc_0_179D:
 0000:179D 22 2A 62
0000:17AO 32 27 62
0000:17A3 11 00 05
0000:17A6 CD 9F 30
                                                                                                (seq_data), hl
(level_type), a
de, 500h
sub_0_309F
                                                                                ld
                                                                                ld
                                                                                call
 0000:17A9 AF
0000:17AA 32 88 63
0000:17AD 21 09 60
0000:17BO 36 30
                                                                                xor
                                                                                ld
ld
ld
                                                                                                (unk_0_6388), a
hl, eight_bit_countdown
(hl), 30h; '0'
0000:17B2 23
0000:17B3 36 08
0000:17B5 C9
0000:17B5
                                                                                ld
                                                                                                 (hl), 8
                                                                                                                                                                                    ; sequencer = how high screen
                                                                                ret
unk_0_17B6:
                                                                                .db
                                                                                              0 ;
                                                                                                                                                                                    ; DATA XREF: 0000:1648 o
                                                                                call
                                                                                                stop_sound
                                                                                ld
                                                                                                hl.
                                                                                                        unk 0 608A
                                                                               ld
inc
                                                                                                 (hl), OEh
                                                                                                hl (hl),
                                                                                                a, 10h
de, 20h; 'hl, VRAM_start+223h
                                                                                ld
                                                                                                                                                                                    ; <space>
                                                                               ld
ld
                                                                                                                                                                                    ; inc by column
                                                                                               display_3_tiles_HL
hl, VRAM_start+183h
display_3_tiles_HL
hl, VRAM_start+2DAh
clear_14x5_HL
                                                                               call
ld
                                                                               call
ld
call
 0000:17D9 11 47 3A
0000:17DC CD A7 0D
0000:17DF 21 D5 76
0000:17E2 CD 26 18
                                                                                                de, draw_data_rivet_end1
sub_0_DA7
hl, VRAM_start+2D5h
clear_14x5_HL
                                                                                1d
                                                                               call
ld
call
0000:17E5 11 4D
0000:17E5 CD A7
0000:17EB 21 D0
0000:17EE CD 26
0000:17F1 11 53
                                 3A
0D
76
18
                                                                                                de, draw_data_rivet_end2
sub_0_DA7
hl, VRAM_start+2D0h
clear_14x5_HL
                                                                                ld
                                                                               call
ld
call
0000:17EE CD 20
0000:17F1 11 53
0000:17F4 CD A7
0000:17F7 21 CB
0000:17FA CD 26
                                                                                                de, draw_data_rivet_end3
sub_0_DA7
hl, VRAM_start+2CBh
                                 3A
0D
76
18
3A
0D
                                                                                ld
                                                                               call
ld
                                                                                call
                                                                                                clear_14x5_HL
                                                                               ld
call
                                                                                                de, draw_data_rivet_end4
sub_0_DA7
                                                                                                hl, kong_normal_spr
copy_sprites_2_11_data
hl, soft_sprite_ram+8
c, 68
 0000:1803 21 5C 38 0000:1806 CD 4E 00
                                                                                ld
                                                                                call
ld
ld
                          08 69
44
                                                                                                                                                                                   ; sprite #2, y coord
                                                                                                 c, 6
38h
0000:180C DE 44

0000:180E FF

0000:180F 21 05 69

0000:1812 36 13

0000:1814 3E 20

0000:1816 32 09 60

0000:1819 3E 80
                                                                                                                                                                                   ; add 68 to y coord for 10 sprites ; sprite #1, yflip & code ; pauline, straight-on
                                                                                rst
                                                                                ld
ld
                                                                                                 hl, soft_sprite_ram+5
(hl), 13h
a, 20h; ''
                                                                                ld
                                                                                                (eight_bit_countdown), a a, 80h; 'Ç'
                                                                                1d
```

```
0000:181B 32 90 63
                                                                           ld
                                                                                            (kong_thrash_tmr), a
0000:181E 21 88 63
0000:1821 34
0000:1822 22 C0 63
0000:1825 C9
                                                                                          hl, unk_0_6388
(hl)
(unk_0_63C0), hl
                                                                           ld
                                                                           inc
ld
                                                                           ret
 0000:1825
0000:1826
0000:1826
0000:1826
                                                                         SUBROUTINE
                                                                                                                                                                          ; CODE XREF: 0000:13221p; 0000:13731p ...
 0000:1826
                                           clear 14x5 HL:
 0000:1826 11 DB FF
0000:1826
0000:1829 0E 0E
                                                                                           de, OFFDBh
                                                                           ld
                                                                                           c, 0Eh
a, 10h
 0000:182B 3E 10
0000:182D
0000:182D
0000:182D 06 05
                                                                           1d
                                                                                                                                                                          ; <space>
                                           loc_0_182D:
                                                                                                                                                                          ; CODE XREF: clear_14x5_HL+F|j
                                                                           ld
                                                                                          b. 5
0000:182F
0000:182F
0000:182F 77
                                                                                                                                                                          ; CODE XREF: clear_14x5_HL+B|j
                                            loc_0_182F:
                                                                           ld
                                                                                           (hl), a
                                                                                                                                                                          ; display space
 0000:1830 23
0000:1831 10 FC
0000:1833 19
0000:1834 0D
                                                                                                                                                                          ; next row
; loop 5 times
; next column
                                                                           inc
                                                                                           hl
                                                                           djnz
                                                                                           loc_0_182F
                                                                           add
                                                                           dec
 0000:1835 C2 2D 18
0000:1838 C9
0000:1838
0000:1838
                                                                                           nz. loc 0 182D
                                                                           jp
                                                                                                                                                                          ; loop through 14 columns
                                            ret; End of function clear_14x5_HL
 0000:1839
0000:1839
0000:1839
0000:1839 21 90 63
                                            loc_0_1839:
                                                                                                                                                                          ; DATA XREF: 0000:164C1o
                                                                                           hl, kong_thrash_tmr
                                                                           ld
0000:183C 34
0000:183D CA 59 18
0000:1840 7E
0000:1841 E6 07
                                                                           inc
jp
ld
                                                                                           (hl)
z, loc_0_1859
                                                                                           a, (hl)
0000:1841 E6 07
0000:1844 11 CF 39
0000:1847 CB 5E
0000:1849 20 03
0000:184B 11 F7 39
0000:184E 0000:184E 0000:184E 0000:184E 0000:184F CD 4E 00
0000:1852 21 08 69
0000:1855 0E 44
0000:1855 0F 45
                                                                           and
                                                                           ret
ld
                                                                                          nz
de, 39CFh
3, (hl)
nz, loc_0_184E
de, 39F7h
                                                                           bit
                                                                           jr
ld
                                            loc 0 184E:
                                                                                                                                                                          ; CODE XREF: 0000:1849<sup>†</sup>j
                                                                           ex
                                                                                           de, hl
                                                                                          copy_sprites_2_11_data
h1, soft_sprite_ram+8
c, 68
                                                                           call
ld
                                                                                                                                                                          ; sprite #2, y coord
                                                                           ld
                                                                                           c,
38h
                                                                           rst
                                                                                                                                                                          ; add 68 to y coord for 10 sprites
 0000:1857 FF
0000:1858 C9
0000:1859
                                                                           ret
 0000:1859
0000:1859
0000:1859 21 5C 38
0000:185C CD 4E 00
                                            loc_0_1859:
                                                                                                                                                                          ; CODE XREF: 0000:183D1j
                                                                                          hl, kong_normal_spr
copy_sprites_2_11_data
hl, soft_sprite_ram+8
c, 68
                                                                           call
0000:185C CD 4E 00
0000:185F 21 08 69
0000:1862 0E 44
0000:1864 FF
0000:1865 3E 20
0000:1867 32 09 60
0000:186D 34
0000:186E C9
                                                                           1d
                                                                                                                                                                          ; sprite #2, y coord
                                                                           ld
                                                                                           c, 68
38h
a, 20h;
                                                                                                                                                                          ; add 68 to y coord for 10 sprites
                                                                           rst
ld
                                                                           ld
ld
inc
                                                                                           (eight_bit_countdown), a
hl, unk_0_6388
(hl)
                                                                           ret
 0000:186F
0000:186F
0000:186F
                                                                                                                                                                          ; DATA XREF: 0000:164E†o ; wait for 8-bit countdown
                                            loc_0_186F:
0000:186F DF 0000:1870 21 1F 3A 0000:1876 3E 03 0000:1876 3E 03 0000:1878 32 84 60 0000:187E 21 88 63 0000:187E 34 0000:187F C9 0000:1880
                                                                           rst
                                                                                           18h
hl, fk_falling_spr
                                                                           ld
                                                                           call
ld
                                                                                           copy_sprites_2_11_data
                                                                                           a, 3
(digital_snd_tmrs+4), a
                                                                           ld
                                                                                           h1, unk_0_6388
(h1)
                                                                           ld
                                                                           ret
 0000:1880
0000:1880
0000:1880
0000:1880
21 0B 69
                                            loc_0_1880:
                                                                                                                                                                             DATA XREF: 0000:1650 o
                                                                                           hl, soft sprite ram+0Bh
                                                                           ld
                                                                                                                                                                          ; sprite #2, x coord
0000:1883 0E 01
0000:1885 FF
0000:1886 3A 1B 69
0000:1889 FE D0
                                                                           1d
                                                                                           c,
38h
                                                                           rst
ld
                                                                                                                                                                          ; add 1 to x coord for 10 sprites
                                                                                           a, (soft_sprite_ram+1Bh)
0D0h ; 'ŏ'
                                                                           cp
ret
ld
ld
0000:1889 FE DO
0000:188E CO
0000:188E 3E 20
0000:188E 32 19 69
0000:1891 21 24 6A
0000:1894 36 7F
0000:1897 36 39
0000:1899 2C
                                                                                           nz
a, 20h; ' '
(soft_sprite_ram+19h),
                                                                                           hl, soft_sprite_ram+124h (hl), 7Fh; ''
                                                                           ld
                                                                           ld
inc
ld
inc
                                                                                           (hl), 39h; '9'
0000:1899 2C
0000:189A 36 01
0000:189C 2C
0000:189D 36 D8
0000:189F 21 C6 76
0000:18A2 CD 26 18
0000:18A5 11 5F 3A
0000:18A8 CD A7 00
                                                                           ld
inc
ld
                                                                                            (hl), 1
                                                                                            1
(hl), OD8h; 'Ï'
                                                                                           hl, VRAM_start+2C6h
clear_14x5_HL
de, draw_data_rivet_end5
sub_0_DA7
                                                                           1d
                                                                           call
ld
call
                                                                                           SUD_U_DA,
de, 4
bc, 228h
hl, soft_sprite_ram+3
loc_0_3D
 0000:18AB 11 04 00
0000:18AE 01 28 02
0000:18BI 21 03 69
                                                                           ld
ld
ld
                                                                                                                                                                         ; sprite #0, x coord
 0000:18B4 CD 3D 00
                                                                           call
0000:1884 CD 3D 00
0000:1887 3E 00
0000:188B 32 AF 62
0000:18BC 3E 03
0000:18BE 32 82 60
0000:18C1 21 88 63
0000:18C5 C9
0000:18C5 C9
                                                                           ld
                                                                                            a, 0
(unk_0_62AF), a
                                                                           ld
ld
                                                                                            (digital_snd_tmrs+2), a
                                                                           ld
                                                                                           hl, unk_0_6388
(hl)
                                                                           ld
                                                                           ret
                                                                                                                                                                        ; DATA XREF: 0000:1652 o
                                            loc_0_18C6:
 0000:18C6 21 AF 62
                                                                           ld
                                                                                           hl, unk_0_62AF (hl)
                                                                                          z, loc_0_193D
a, (h1)
 0000:18C9 35
0000:18CA CA 3D 19
0000:18CD 7E
0000:18CE E6 07
                                                                           dec
                                                                           jp
ld
                                                                           and
ret
 0000:18D0 C0
                                                                                           nz
```

```
0000:18D1 21 25 6A
                                                                                                     hl, soft_sprite_ram+125h
                                                                                                    nn, soft_sprite_ram+125,
a, (hl)
80h; 'C'
(hl), a
hl, soft_sprite_ram+19h
b, (hl)
5, b
0000:18D4 7E
                                                                                    1d
0000:18D5 EE 80
0000:18D7 77
0000:18D8 21 19 69
                                                                                    xor
ld
ld
0000:18DB 46
0000:18DC CB A8
0000:18DE AF
0000:18DF CD 09 30
                                                                                    ld
                                                                                    res
xor
call
                                                                                                     sub_0_3009
                                                                                    or
ld
ld
ld
0000:18E2 F6 20
                                                                                                     20h; '(h1), a
h1, unk_0_62AF
a, (h1)
0E0h; 'Ó'
nz, loc_0_1910
0000:18E4 77
0000:18E5 21 AF 62
0000:18E8 7E
0000:18E9 FE E0
0000:18EB C2 10 19
0000:18EE 3E 50
0000:18F0 32 4F 69
                                                                                    cp
jp
ld
                                                                                                     a, 50h ; 'P'
(soft_sprite_ram+4Fh), a
                                                                                    ld
0000:18F0 32 4F
0000:18F3 3E 00
0000:18F5 32 4D
0000:18F8 3E 9F
                                                                                    ld
ld
ld
                      32 4D 69
3E 9F
                                                                                                      (soft_sprite_ram+4Dh), a
                                                                                                     a, 9Fh ; 'f'
(soft_sprite_ram+4Ch), a
0000:18FA 32 4C 69
0000:18FD 3A 03 62
0000:1900 FE 80
0000:1902 D2 0F 19
                                                                                    ld
ld
cp
                                                                                                     a, (mario_x)

80h; 'Ç'

nc, loc_0_190F

a, 80h; 'Ç'
                                                                                    jp
ld
0000:1902 D2 0F 19
0000:1905 3E 80
0000:1907 32 4D 69
0000:1906 35 5F
0000:190C 32 4C 69
0000:190F
0000:190F
0000:190F 7E
0000:1910
                                                                                    ld
ld
                                                                                                      (soft_sprite_ram+4Dh), a
                                                                                                     (soft_sprite_ram+4Ch), a
                                                                                    ld
                                                loc_0_190F:
                                                                                                                                                                                              ; CODE XREF: 0000:1902<sup>†</sup>j
                                                                                    1d
                                                                                                    a, (hl)
0000:190F 7E
0000:1910
0000:1910
0000:1910
0000:1912 CO
0000:1913 21 8A 60
0000:1918 3A 29 62
0000:1918 3A 29 62
0000:1918 36 05
0000:1918 36 05
0000:1920 23
0000:1920 23
0000:1921 36 03
0000:1923 21 23 6A
0000:1926 36 40
0000:1928 2B
0000:1928 2B
0000:1928 2B
0000:1928 36 76
0000:1928 2B
0000:1928 36 76
0000:1928 36 76
0000:1928 36 96
0000:1928 36 97
0000:1928 36 97
0000:1928 36 97
0000:1928 36 97
0000:1938 58 97
0000:1939 36 97
0000:1939 58 97
0000:1939 59 98
0000:1939 59 99
0000:1939 50 99
0000:1939 50 99
                                                loc_0_1910:
                                                                                                                                                                                             ; CODE XREF: 0000:18EB<sup>†</sup> <sup>†</sup>
                                                                                    cp
ret
ld
ld
ld
                                                                                                     0C0h ; 'L'
                                                                                                     nz
hl, unk_0_608A
                                                                                                      (hl), OCh
                                                                                                     a, (level)
                                                                                    rrca
                                                                                    jr
ld
                                                                                                           loc 0 1920
                                                                                                     (hl), 5
                                                loc 0 1920:
                                                                                                                                                                                             ; CODE XREF: 0000:191C|j
                                                                                                     (h1), 3
h1, soft_sprite_ram+123h
(h1), 40h; '@'
                                                                                    ld
ld
                                                                                    ld
                                                                                    ld
dec
                                                                                                       (hl), 9
                                                                                                     hl
(hl), 76h; 'v'
                                                                                    dec
1d
                                                                                                      (hl), 8Fh ; 'Å'
                                                                                                     a, (mario_x)
80h; 'Ç'
                                                                                    ld
                                                                                    cp
ret
ld
ld
                                                                                                     nc
a, 6Fh; 'o'
(soft_sprite_ram+120h), a
0000:193C C9
0000:193D
0000:193D
0000:193D
                                                                                                                                                                                             ; CODE XREF: 0000:18CA†j
                                                loc 0 193D:
0000:193D 2A 2A 62
0000:1940 23
0000:1941 7E
0000:1942 FE 7F
0000:1944 C2 4B 19
0000:1947 21 73 3A
0000:194A 7E
                                                                                    ld
                                                                                                     hl, (seq_data)
                                                                                                     ni, (seq_data)
hl
a, (hl)
7Fh; ''
nz, loc_0_194B
hl, level_seq_2
a, (hl)
                                                                                    inc
ld
                                                                                    cp
jp
ld
                                                                                                                                                                                              ; restart repeating levels?
                                                                                                                                                                                              ; no, skip
; start repeating levels
; get new level
                                                                                    ld
0000:194B
0000:194B
0000:194B 22 2A 62
0000:194E 32 27 62
0000:1951 21 29 62
0000:1954 34
0000:1955 11 00 05
0000:1958 CD 9F 30
                                                 loc_0_194B:
                                                                                                                                                                                              ; CODE XREF: 0000:1944<sup>†</sup> †
                                                                                                      (seq_data), hl
                                                                                                      (level_type), a
                                                                                    ld
                                                                                    ld
inc
ld
                                                                                                     hl, level
(hl)
de, 500h
sub_0_309F
                                                                                                                                                                                              ; next level counter
                                                                                    call
0000:1958 CD 9F 30
0000:195B AF
0000:195C 32 2E 62
0000:195F 32 88 63
0000:1962 21 09 60
0000:1965 36 E0
0000:1967 23
0000:1968 36 08
                                                                                    xor
ld
ld
                                                                                                      (unk_0_622E), a
(unk_0_6388), a
                                                                                                     hl, eight_bit_countdown (hl), OEOh; 'Ó'
                                                                                    ld
                                                                                    ld
inc
                                                                                                     hl
(hl), 8
                                                                                                                                                                                              ; set how high screen
0000:196A C9
                                                                                    ret
0000:196B
0000:196B
0000:196B
0000:196B CD 52 08
0000:196E 3A 0E 60
0000:1971 C6 12
0000:1973 32 0A 60
                                                                                                                                                                                              ; DATA XREF: 0000:0730 o
                                                 loc 0 196B:
                                                                                                     clear_tiles_and_sprites
                                                                                    call
                                                                                    ld
add
ld
                                                                                                      a, (unk_0_600E)
a, 12h
                                                                                                      (main_sequencer), a
0000:1976 C9
0000:1977
0000:1977
0000:1977
0000:1977
0000:1977
0000:1977 CD EE 21
0000:197A
0000:197A
                                                                                                                                                                                              ; DATA XREF: 0000:074E o
                                                attract_mode_gameplay:
                                                                                    call
                                                                                                     next\_attract\_action
                                                gameplay:
                                                                                                                                                                                              ; DATA XREF: 0000:071A o
0000:197A CD BD 1D
                                                                                    call
                                                                                                     sub 0 1DBD
0000:197A CD BD 1D
0000:197D CD 8C 1E
0000:1980 CD C3 1A
0000:1983 CD 72 1F
0000:1986 CD 8F 2C
0000:1989 CD 03 2C
0000:198C CD ED 30
                                                                                                     sub_0_1E8C
sub_0_1AC3
sub_0_1F72
                                                                                    call
call
                                                                                    call
                                                                                    call
                                                                                                      sub 0 2C8F
                                                                                    call
                                                                                                     sub_0_2C03
sub_0_30ED
                                                                                                                                                                                              ; process fireballs?
0000:198F CD 04 2E
0000:1992 CD EA 24
                                                                                    call
                                                                                                      sub 0 2E04
                                                                                                                                                                                               ; process springs
                                                                                    call
                                                                                                      sub 0 24EA
                                                                                    call
                                                                                                      sub_0_2DDB
                                                                                                      sub_0_2ED4
0000:199B CD 07
0000:199E CD 33
0000:19A1 CD 85
0000:19A4 CD 46
                                                                                    call
                                                                                                      sub 0 2207
                                                                                                     sub_0_1A33
sub_0_2A85
                                                                                    call
                                                                                                      sub_0_1F46
                                                                                    call
0000:19A7 CD FA
                                                                                    call
                                                                                                      sub 0 26FA
                                                                                                      sub_0_25F2
0000:19AA CD F2 25
                                                                                    call
```

ret

pop jp

ld rst ld

ср

jp cp

sub\_0\_1A33:

0000:1A33 0000:1A33 0000:1A33

0000:1A33 0000:1A33 3E 08 0000:1A35 F7 0000:1A36 3A 03 62 0000:1A39 FE 4B

0000:1A39 FE 4B

0000:1A3E FE B3

nz

hl loc\_0\_19D2 SUBROUTINE

a, 8
30h
a, (mario\_x)
4Bh; 'K'
z, loc\_0\_1A4B

```
; CODE XREF: 0000:199E↑p
; return if level bit not set
                                                                    Page: 39
```

```
0000:1A40 CA 4B 1A
                                                                                         z, loc_0_1A4B
                                                                          jp
ld
0000:1A43 3A 91 62
0000:1A46 3D
0000:1A47 CA 51 1A
0000:1A4A C9
                                                                                         a, (unk_0_6291)
                                                                          jp
ret
                                                                                         z, loc_0_1A51
0000:1A4B
0000:1A4B
0000:1A4B
0000:1A4B 3E 01
                                                                                                                                                                       ; CODE XREF: sub_0_1A33+8†j; sub_0_1A33+D†j
                                          loc_0_1A4B:
0000:1A4B
0000:1A4D 32 91 62
0000:1A50 C9
0000:1A51
                                                                          1d
                                                                          1d
                                                                                         (unk_0_6291), a
0000:1A51
0000:1A51
0000:1A51 32 91 62
0000:1A54 47
                                           loc_0_1A51:
                                                                                                                                                                      ; CODE XREF: sub_0_1A33+14 j
                                                                          ld
                                                                                         (unk_0_6291), a
                                                                                        b, a
a, (mario_y)
                                                                          ld
0000:1A54 47
0000:1A55 3A 05 62
0000:1A58 3D
0000:1A59 FE D0
                                                                         ld
dec
                                                                                         0D0h ; 'ð'
                                                                          ср
0000:1A5B D0
0000:1A5C 07
0000:1A5D D2 62 1A
0000:1A60 CB D0
                                                                          ret
                                                                                         nc
                                                                          rlca
                                                                         jp
set
                                                                                         nc, loc_0_1A62
2, b
0000:1A62
0000:1A62
0000:1A62
0000:1A62 07
0000:1A63 07
0000:1A64 D2 69 1A
0000:1A67 CB C8
0000:1A69
0000:1A69
                                           loc_0_1A62:
                                                                                                                                                                      ; CODE XREF: sub_0_1A33+2A<sup>†</sup> j
                                                                         rlca
                                                                                         nc, loc_0_1A69
1, b
                                          loc_0_1A69:
                                                                                                                                                                      ; CODE XREF: sub_0_1A33+31 j
0000:1A69
0000:1A69 E6 07
0000:1A6B FE 06
0000:1A70 CB C8
0000:1A72
0000:1A72
0000:1A72 3A 03 62
0000:1A75 07
0000:1A76 D2 7B 1A
0000:1A79 CB C0
0000:1A78
                                                                          and
                                                                          ср
                                                                                         nz, loc_0_1A72
                                                                          jр
                                                                                         1. b
                                                                          set
                                           loc_0_1A72:
                                                                                                                                                                      ; CODE XREF: sub_0_1A33+3A j
                                                                         ld
                                                                                         a, (mario_x)
                                                                         rlca
                                                                                         jp
set
0000:1A7B
0000:1A7B 21 92 62
0000:1A7E 78
0000:1A7E 78
0000:1A80 6F
0000:1A81 7E
0000:1A82 A7
                                                                                                                                                                      ; CODE XREF: sub_0_1A33+431j
                                          loc_0_1A7B:
                                                                                        hl, unk_0_6292
a, b
a, l
l, a
a, (hl)
                                                                         ld
ld
                                                                         add
ld
ld
                                                                          and
0000:1A83 C8
0000:1A84 36 00
0000:1A86 21 90 62
0000:1A89 35
                                                                          ret
                                                                                         (h1), 0
h1, unk_0_6290
(h1)
                                                                          ld
ld
                                                                          dec
0000:1A8A 78
0000:1A8B 01 05 00
0000:1A8E 1F
0000:1A8F DA BD 1A
                                                                          1d
                                                                                        a, b
bc, 5
                                                                          ld
                                                                          rra
                                                                                         c, loc_0_1ABD
                                                                          jp
ld
0000:1A92 21 CB 02
0000:1A95
0000:1A95
0000:1A95 A7
                                                                                        hl, 2CBh
                                                                                                                                                                      ; CODE XREF: sub_0_1A33+8D|j
                                           loc_0_1A95:
                                                                          and
0000:1A96 CA 9E 1A
0000:1A99
0000:1A99
                                                                         jp
                                                                                         z. loc 0 1A9E
                                                                                                                                                                     ; CODE XREF: sub_0_1A33+68|j
                                           loc_0_1A99:
 0000:1A99 09
                                                                                        hl, bc
                                                                         add
0000:1A9A 3D
0000:1A9B C2 99 1A
0000:1A9E
                                                                                        nz, loc_0_1A99
                                                                          jp
0000:1A9E
                                          loc 0 1A9E:
                                                                                                                                                                     ; CODE XREF: sub 0 1A33+631 j
0000:1A9E 01 00 74
0000:1A9I 09
0000:1AA1 09
0000:1AA2 3E 10
0000:1AA5 77
0000:1AA6 77
0000:1AA7 2C
                                                                                        bc, VRAM_start hl, bc a, 10h (hl), a
                                                                         add
ld
ld
dec
                                                                          ld
                                                                                         (hl), a
                                                                          inc
0000:1AA7 2C
0000:1AA8 2C
0000:1AA9 77
0000:1AAA 3E 01
0000:1AAF 32 40 63
0000:1AAF 32 42 63
0000:1ABF 32 45 62
0000:1ABF 3A 16 62
0000:1ABB A7
0000:1ABB CC 95 1D
0000:1ABB CD
                                                                          inc
ld
ld
                                                                                         (hl), a
                                                                                         (unk_0_6340), a
                                                                          ld
                                                                         ld
ld
ld
                                                                                         (unk_0_6342),
(unk_0_6225),
                                                                                         a, (mario_jumping)
                                                                          and
                                                                          call
ret
                                                                                         z, sub_0_1D95
0000:1ABD
0000:1ABD
0000:1ABD
0000:1ABD 21 2B 01
0000:1ACO C3 95 1A
                                           loc_0_1ABD:
                                                                                                                                                                       ; CODE XREF: sub_0_1A33+5C<sup>†</sup>j
                                                                                         hl, 12Bh
                                                                         ld
                                                                                         loc_0_1A95
                                                                          jр
0000:1AC0
0000:1AC0
0000:1AC3
0000:1AC3
                                           ; End of function sub_0_1A33
                                                                       SUBROUTINE
0000:1AC3
0000:1AC3
0000:1AC3
0000:1AC3 3A 16 62
                                           sub_0_1AC3:
                                                                                                                                                                      ; CODE XREF: 0000:1980↑p
0000:1AC3 3A 16 62
0000:1AC6 3D
0000:1AC7 CA B2 1B
0000:1ACA 3A 1E 62
0000:1ACD A7
0000:1ACB C2 55 1B
0000:1AD1 3A 17 62
0000:1AD4 3D
0000:1AD5 CA E6 1A
0000:1AD8 3A 15 62
0000:1AD8 3D 3D
0000:1ADC CA 38 1B
                                                                          ld
                                                                                        a, (mario_jumping)
                                                                         dec
jp
ld
                                                                                         a
z, loc_0_1BB2
a, (unk_0_621E)
                                                                          and
                                                                                         nz, loc_0_1B55
a, (unk_0_6217)
                                                                          jp
ld
                                                                                         z, loc_0_1AE6
a, (mario_climbing)
                                                                          dec
                                                                          jp
ld
dec
0000:1ADB 3D
0000:1ADC CA 38 1B
0000:1ADF 3A 10 60
0000:1AE2 17
0000:1AE3 DA 6E 1B
                                                                                         z, loc_0_1B38
                                                                          jp
ld
                                                                                         a, (controller_in)
                                                                                                                                                                       ; jump pressed?
; yes, skip
                                                                                        c, loc_0_1B6E
                                                                          jр
0000:1AE6
0000:1AE6
                                          loc_0_1AE6:
                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+12<sup>†</sup>j
```

0000:1B99 32 06 62 0000:1B9C 3A 07 62 1d

(unk\_0\_6206), a
a, (mario\_sprite\_tile)

```
0000:1AE6 CD 1F 24
                                                                          call
                                                                                         sub_0_241F
                                                                                        aw_u_z41F
a, (controller_in)
e
z, loc_0_1AF5
0, a
0000:1AE9 3A 10 60
0000:1AEC 1D
                                                                          ld
dec
0000:1AEC 1D
0000:1AED CA F5 1A
0000:1AF0 CB 47
0000:1AF2 C2 8F 1C
0000:1AF5
0000:1AF5 15
                                                                          jp
bit
                                                                                         nz, loc 0 1C8F
                                                                          jр
                                          loc_0_1AF5:
                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+2A j
                                                                                         z, loc_0_1AFE
0000:1AF6 CA FE 1A
0000:1AF9 CB 4F
0000:1AFB C2 AB 1C
0000:1AFE
                                                                          jp
bit
                                                                                         nz, loc_0_1CAB
                                                                         jр
0000:1AFE
                                          loc_0_1AFE:
                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+331j
0000:1AFE 3A 17 62
0000:1B01 3D
0000:1B02 C8
                                                                         ld
                                                                                         a, (unk_0_6217)
                                                                          dec
ret
0000:1B02 C8

0000:1B03 3A 05 62

0000:1B06 C6 08

0000:1B08 57

0000:1B09 3A 03 62

0000:1B0C F6 03

0000:1B0C CB 97

0000:1B10 01 15 00
                                                                                        a, (mario_y)
a, 8
d, a
                                                                          1d
                                                                         add
ld
ld
                                                                                         a, (mario_x)
3
                                                                                          2, a
15h
                                                                          ld
0000:1B13 CD 6E 23
                                                                          call
                                                                                         sub_0_236E
0000:1B13 CD 6E 23
0000:1B16 F5
0000:1B17 21 07 62
0000:1B1A 7E
0000:1B1B E6 80
0000:1B1D F6 06
0000:1B1F 77
0000:1B20 21 1A 62
                                                                                         af
hl, mario_sprite_tile
                                                                                         a, (hl)
80h; 'Ç'
                                                                          1d
                                                                          and
                                                                          or
ld
ld
                                                                                        (hl), a
hl, unk_0_621A
a, 4
                                                                                                                                                                       ; mario climbing character
0000:1B23 3E 04
0000:1B25 B9
0000:1B26 36 01
0000:1B28 D2 2C 1B
                                                                          1d
                                                                          cp
ld
                                                                                        (h1), 1
nc, loc_0_1B2C
(h1)
                                                                                                                                                                      ; set as broken ladder
                                                                          jp
dec
0000:1B2B 35
0000:1B2C
0000:1B2C
                                                                                                                                                                      ; set as normal ladder
                                          loc_0_1B2C:
                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+65 j
                                                                         pop
and
jp
ld
0000:1B2C F1
                                                                                         af
0000:1B2C F1
0000:1B2D A7
0000:1B2E CA 4E 1B
0000:1B31 7E
0000:1B33 CO
0000:1B33 CO
0000:1B34 2C
0000:1B35 72
                                                                                         a
z, loc_0_1B4E
                                                                                         a, (h1)
                                                                          and
                                                                          ret
                                                                                         nz
                                                                                         l
(hl), d
                                                                          ld
                                                                                                                                                                      ; set top coordinate of ladder
; set bottom Y coordinate of ladder
0000:1B36 2C
0000:1B30 2C
0000:1B37 70
0000:1B38
                                                                          ld
                                                                                         (hl), b
0000:1B38
0000:1B38 3A 10 60
0000:1B3B CB 5F
0000:1B3D C2 F2 1C
                                          loc_0_1B38:
                                                                                                                                                                      ; CODE XREF: sub 0 1AC3+19<sup>†</sup> <sup>†</sup>
                                                                                         a, (controller_in)
                                                                         ld
bit
                                                                                         3, a
nz, loc_0_1CF2
                                                                                                                                                                       ; yes, go
                                                                          jp
ld
                                                                                         a, (mario_climbing)
0000:1B40 3A 15 62
0000:1B43 A7
0000:1B44 C8
0000:1B45
                                                                          and
                                                                          ret
0000:1845
0000:1845 3A 10 60
0000:1848 CB 57
0000:184A C2 03 1D
0000:184D C9
0000:184E
0000:184E
                                           loc_0_1B45:
                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+8F|j
                                                                                         a, (controller_in)
                                                                         ld
bit
                                                                                                                                                                      ; up?
; yes, go
                                                                                         nz, loc_0_1D03
                                                                          qŗ
                                          loc_0_1B4E:
                                                                                                                                                                       ; CODE XREF: sub 0 1AC3+6B1 j
0000:1B4E
0000:1B4E 2C
0000:1B4F 70
0000:1B50 2C
0000:1B51 72
                                                                          ld
                                                                                          (hl), b
                                                                                                                                                                       ; set top Y corordinate of ladder ; set bottom coordinate of ladder
                                                                          inc
ld
                                                                                         l
(hl), d
0000:1B52 C3 45 1B
0000:1B55
0000:1B55
                                                                                         loc_0_1B45
0000:1B55
0000:1B55 21 1E 62
0000:1B58 35
0000:1B59 C0
                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+Bfj
                                          loc_0_1B55:
                                                                         ld
dec
ret
                                                                                        hl, unk_0_621E
(hl)
                                                                                        (n1)
nz
a, (unk_0_6218)
(unk_0_6217), a
hl, mario_sprite_tile
a, (hl)
80h; 'C'
(hl), a
0000:1B5A 3A 18 62
0000:1B5D 32 17 62
0000:1B60 21 07 62
0000:1B63 7E
                                                                         ld
ld
ld
                                                                          ld
0000:1B63 7E
0000:1B64 E6 80
0000:1B66 77
0000:1B67 AF
                                                                          and
ld
                                                                                                                                                                      ; h-flip mario
                                                                          xor
0000:1B68 32 02 62
0000:1B6B C3 A6 1D
0000:1B6E
                                                                                          (unk_0_6202), a
                                                                          ld
                                                                                        loc_0_1DA6
0000:1B6E
0000:1B6E
                                           loc 0 1B6E:
                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+20 j
0000:1B6E 3E 01
0000:1B70 32 16 62
0000:1B73 21 10 62
                                                                          ld
ld
ld
                                                                                                                                                                       ; start_jump
; set mario jumping
                                                                                        (mario_jumping), a
hl, unk_0_6210
a, (controller_in)
bc, 80h; 'Ç'
0000:1873 21 10 62
0000:1876 3A 10 60
0000:1879 01 80 00
0000:187C 1F
0000:187D DA 8A 1B
0000:1880 01 80 FF
0000:1883 1F
0000:1884 DA 8A 1B
                                                                         ld
ld
                                                                                                                                                                      ; right?
; yes, skip
                                                                          rra
                                                                                          c, loc_0_1B8A
                                                                          jp
ld
                                                                                         bc, 0FF80h
                                                                                                                                                                      ; left?
; yes, skip
                                                                                        c, loc_0_1B8A
bc, 0
                                                                         jp
ld
0000:1B87 01 00 00
0000:1B8A
0000:1B8A
0000:1B8A AF
                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+BA<sup>†</sup> j ; sub_0_1AC3+C1<sup>†</sup> j
                                          loc_0_1B8A:
0000:1B8A
                                                                                         a
(hl), b
0000:1B8B 70
0000:1B8C 2C
                                                                          ld
inc
0000:1B8B 70
0000:1B8C 2C
0000:1B8D 71
                                                                                          (hl), c
                                                                          1d
0000:1B8E 2C
0000:1B0E 2C
0000:1B8F 36 01
0000:1B91 2C
0000:1B92 36 48
                                                                          ld
                                                                                          (hl), 1
                                                                                         (hl), 48h; 'H'
                                                                          ld
0000:1B94 2C
0000:1B95 77
0000:1B96 32 04 62
                                                                                          (hl),
                                                                                         (unk_0_6204), a
                                                                          ld
```

```
0000:1B9F E6 80
                                                                            and
                                                                                             80h ; 'Ç'
0000:1BA1 F6 0E
                                                                            or
                                                                                            0Eh
                                                                                                                                                                           ; mario jumping character
0000:1BA1 F6 0E
0000:1BA3 32 07 62
0000:1BA6 3A 05 62
0000:1BA9 32 0E 62
0000:1BAC 21 81 60
0000:1BAF 36 03
0000:1BB1 C9
0000:1BB2
                                                                                            (mario_sprite_tile), a
a, (mario_y)
(unk_0_620E), a
                                                                            1d
                                                                            ld
ld
                                                                                            hl, digital_snd_tmrs+1
(hl), 3
                                                                            ld
                                                                            14
0000:1BB2
0000:1BB2 DD 21 00 62 0000:1BB5 DD 77 0B 0000:1BB6 JA 03 62 0000:1BB6 JA 05 62 0000:1BB7 DD 77 0C 0000:1BC2 CD 9C 23 0000:1BC2 CD 9C 23 0000:1BC3 CD 9C 23
                                           loc_0_1BB2:
                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+4<sup>†</sup>j
                                                                            ld
ld
                                                                                            ix, is_mario_alive
                                                                                            a, (mario_x)
(ix+0Bh), a
                                                                            ld
ld
ld
                                                                                                                                                                            ; store X position before a jump
                                                                                            a, (mario_y)
(ix+0Ch), a
sub_0_239C
                                                                                                                                                                            ; store Y position before a jump
                                                                            call
UUU0:1BC2 CD 9C 23
0000:1BC5 CD 1F 24
0000:1BC8 15
0000:1BC9 C2 F2 1B
0000:1BC0 DD 36 10 00
0000:1BD0 DD 36 11 80
0000:1BD4 DD CB 07 FE
0000:1BD8
                                                                            call
dec
jp
ld
                                                                                            sub_0_241F
d
nz, loc_0_1BF2
                                                                                            (ix+10h), 0
(ix+11h), 80h; 'C'
7, (ix+7)
                                                                            ld
                                                                                                                                                                            ; h-flip sprite
                                                                                                                                                                            ; CODE XREF: sub 0 1AC3+13F-i
0000:1BD8
                                            loc_0_1BD8:
0000:1BD8 3A 20 62
0000:1BDB 3D
0000:1BDB 3D
0000:1BDC CA EC 1B
0000:1BDF CD 07 24
0000:1BED DD 74 12
0000:1BES DD 75 13
0000:1BE8 DD 36 14 00
                                                                            ld
dec
                                                                                            a, (unk_0_6220)
                                                                                            a
z, loc_0_1BEC
sub_0_2407
(ix+12h), h
(ix+13h), l
                                                                            jp
call
ld
ld
ld
                                                                                            (ix+14h), 0
0000:1BEC
0000:1BEC
0000:1BEC CD 9C 23
0000:1BEF C3 05 1C
                                            loc_0_1BEC:
                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+119 j
                                                                            call
                                                                                            sub_0_239C
loc_0_1C05
                                                                            jр
0000:1BEF
0000:1BF2
0000:1BF2
                                            loc_0_1BF2:
                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+106 j
0000:1BF2 1D
0000:1BF2 1D
0000:1BF6 DD 36 10 FF
0000:1BFA DD 36 11 80
0000:1BFA DD CB 07 BE
0000:1C02 C3 D8 1B
                                                                                            nz, loc_0_1C05
(ix+10h), 0FFh
(ix+11h), 80h; 'C'
                                                                            jp
ld
                                                                            ld
                                                                                                                                                                            ; un-hflip sprite
                                                                            res
                                                                                                 (ix+
                                                                                            loc_0_1BD8
                                                                            jр
 0000:1C05
                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+12C<sup>†</sup>j; sub_0_1AC3+130<sup>†</sup>j
0000:1005
                                            loc 0 1C05:
0000:1C05
0000:1C05 CD 1C 2B
0000:1C05
                                                                            call
                                                                                            sub_0_2B1C
0000:1C08 3D
                                                                            dec
                                                                                                                                                                            ; are we jumping?
0000:1C09 CA 3A 1C
0000:1C0C 3A 1F 62
0000:1C0F 3D
                                                                            jp
ld
                                                                                             z, loc_0_1C3A
                                                                                            a, (unk_0_621F)
                                                                            dec
0000:1C0F 3D
0000:1C10 CA 76 1C
0000:1C13 3A 14 62
0000:1C16 D6 14
0000:1C18 C2 33 1C
                                                                                            z, loc_0_1C76
a, (unk_0_6214)
14h
                                                                            jp
ld
                                                                            sub
                                                                                            nz, loc_0_1C33
                                                                            jp
ld
0000:1c18 c2 33 1c
0000:1c1B 3E 01
0000:1c1D 32 1F 62
0000:1c20 D5 53 28
0000:1c23 A7
0000:1c24 CA A6 1D
0000:1c27 32 42 63
0000:1c2A 3E 01
0000:1c2C 32 40 63
0000:1c2F 32 25 62
                                                                                            a, 1
(unk_0_621F), a
sub_0_2853
                                                                                                                                                                            ; peak of the jump
                                                                            ld
call
                                                                                                                                                                            ; check for bonus points?
                                                                            and
                                                                                            a
z, loc_0_1DA6
                                                                                                                                                                            ; any bonus points?
; no, exit
                                                                            jp
ld
ld
                                                                                            (unk_0_6342), a
                                                                                                                                                                            ; register bonus
                                                                                            (unk_0_6340), a
(unk_0_6225), a
                                                                            ld
                                                                            14
0000:1C2F 32
0000:1C32 00
0000:1C33
                                                                            nop
0000:1C33
0000:1C33 3C
0000:1C34 CC 54 29
0000:1C37 C3 A6 1D
                                            loc 0 1C33:
                                                                                                                                                                            ; CODE XREF: sub 0 1AC3+155
                                                                            inc
                                                                            call
                                                                                            z, sub_0_2954
loc_0_1DA6
                                                                            qį
0000:1C3A
0000:1C3A
0000:1C3A
0000:1C3A
0000:1C3A 05
                                            loc_0_1C3A:
                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+146 j
                                                                            dec
0000:1C3A 05
0000:1C3B CA 4F 1C
0000:1C3E 3C
0000:1C3F 32 1F 62
0000:1C42 AF
0000:1C43 21 10 62
0000:1C46 06 05
0000:1C48
                                                                            jp
inc
                                                                                            z, loc_0_1C4F
                                                                                            (unk_0_621F), a
                                                                            xor
                                                                                            hl, 6210h
b, 5
                                                                            1d
0000:1C48
                                                                                                                                                                           ; CODE XREF: sub 0 1AC3+187-i
                                            loc 0 1C48:
0000:1C48 77
0000:1C49 2C
0000:1C4A 10 FC
0000:1C4C C3 A6 1D
                                                                            ld
inc
                                                                                            (hl), a
                                                                                             loc_0_1C48
                                                                            djnz
0000:1C4F
0000:1C4F
0000:1C4F
                                            loc_0_1C4F:
                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+178 j
0000:1C4F
0000:1C4F 32 16 62
0000:1C52 3A 20 62
0000:1C55 EE 01
0000:1C57 32 00 62
0000:1C5A 21 07 62
0000:1C5B E6 80
0000:1C5E E6 80
                                                                            1d
                                                                                            (mario_jumping), a
a, (unk_0_6220)
                                                                            ld
                                                                            xor
ld
                                                                                             (is mario alive).
                                                                                                                                                                            ; set whether mario survives a jump
                                                                                            hl, mario_sprite_tile
a, (hl)
80h; 'C'
                                                                            ld
ld
                                                                            and
                                                                            or
                                                                                                                                                                            ; mario landing character
0000:1C62 77
0000:1C62 77
0000:1C63 3E 04
0000:1C65 32 1E 62
                                                                            ld
ld
ld
                                                                                            (hl), a
                                                                                             (unk_0_621E), a
0000:1C65 32 1E 62
0000:1C68 AF
0000:1C69 32 1F 62
0000:1C6C 3A 25 62
                                                                            xor
                                                                            ld
ld
                                                                                            (unk_0_621F), a
a, (unk_0_6225)
0000:1C6F
                                                                            ded
0000:1C0F 3D
0000:1C70 CC 95 1D
0000:1C73 C3 A6 1D
0000:1C76
                                                                            call
                                                                                             z. sub 0 1D95
                                                                            jp
                                                                                            loc_0_1DA6
 0000:1C76
 0000:1076
                                            loc_0_1C76:
                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+14D^j
0000:1C76
0000:1C76 3A 05 62
0000:1C79 21 0E 62
0000:1C7C D6 0F
                                                                                            a, (mario_y)
hl, unk_0_620E
                                                                            ld
                                                                            sub
0000:1C7E BE
                                                                                            (hl)
```

```
0000:1C7F DA A6 1D
                                                                                           c, loc_0_1DA6
                                                                           jp
ld
 0000:1C82 3E 01
0000:1C84 32 20 62
0000:1C87 21 84 60
0000:1C8A 36 03
                                                                                          (unk_0_6220), a
hl, 6084h
(hl), 3
loc_0_1DA6
                                                                           ld
                                                                           ld
ld
 0000:1C8C C3 A6 1D
0000:1C8F
0000:1C8F
0000:1C8F
                                                                           jр
                                            loc_0_1C8F:
                                                                                                                                                                        ; CODE XREF: sub_0_1AC3+2F|j
 0000:1C8F 06 01
                                                                                         b, 1
a, (unk_0_620F)
                                                                           ld
 0000:1C91 3A 0F 62
0000:1C94 A7
0000:1C95 C2 D2 1C
                                                                           ld
and
                                                                           jp
ld
ld
ld
                                                                                          nz, loc_0_1CD2
 0000:1C98 3A 02 62
0000:1C9B 47
0000:1C9C 3E 05
0000:1C9E CD 09 30
                                                                                          a, (unk_0_6202)
b, a
a, 5
                                                                           call
                                                                                           sub 0 3009
 0000:1C9E CD 09 30
0000:1CA1 32 02 62
0000:1CA4 E6 03
0000:1CA6 F6 80
                                                                           ld
and
                                                                                           (unk_0_6202), a
                                                                           or
 0000:1CA8 C3 C2 1C
                                                                           jр
                                                                                           loc 0 1CC2
 0000:1CAB
0000:1CAB
0000:1CAB
                                           loc 0 1CAB:
                                                                                                                                                                         ; CODE XREF: sub 0 1AC3+38<sup>†</sup> <sup>†</sup>
0000:1CAB 06 FF
0000:1CAD 3A 0F 62
0000:1CBD A7
0000:1CB1 C2 D2 1C
0000:1CB4 3A 02 62
0000:1CB3 3E 01
0000:1CB3 3E 01
0000:1CBA 3E 01
0000:1CBA 3E 02
0000:1CC2 20
0000:1CC2
0000:1CC2 21 07 62
0000:1CC2 21 07 62
0000:1CC5 77
0000:1CC6 1F
0000:1CCA 3E 02
                                                                                          a, UFFh
a, (unk_0_620F)
a
 0000:1CAB 06 FF
                                                                           ld
                                                                           ld
and
                                                                                          nz, loc 0 1CD2
                                                                           jp
ld
                                                                                          a, (unk_0_6202)
b, a
                                                                           ld
ld
                                                                           call
                                                                                           sub_0_3009
                                                                                           (unk_0_6202), a
                                                                           1d
                                                                                                                                                                         ; animate mario running
                                                                                                                                                                         ; CODE XREF: sub 0 1AC3+1E5 i
                                            loc 0 1CC2:
                                                                                          hl, mario_sprite_tile
(hl), a
                                                                           1d
                                                                           ld
                                                                                                                                                                         ; set amrio character
                                                                           rra
                                                                                          c. sub 0 1D8F
                                                                           call
                                                                           ld
ld
                                                                                           a, 2
(unk_0_620F), a
                                                                           qŗ
                                                                                           loc 0 1DA6
 0000:1CD2
                                                                                                                                                                         ; CODE XREF: sub_0_1AC3+1D2<sup>†</sup>j; sub_0_1AC3+1EE<sup>†</sup>j
                                            loc_0_1CD2:
 0000:1CD2 21 03 62
                                                                                          hl, mario_x
a, (hl)
a, b
(hl), a
 0000:1002
 0000:1CD2
0000:1CD5 7E
0000:1CD6 80
0000:1CD7 77
                                                                           ld
add
                                                                           ld
ld
dec
jp
ld
                                                                                          a, (level_type)
 0000:1CD8 3A 27 62
0000:1CDB 3D
0000:1CDC C2 EB 1C
                                                                                          nz, loc_0_1CEB
 0000:1CDF 66
0000:1CE0 3A 05 62
0000:1CE3 6F
0000:1CE4 CD 33 23
                                                                                          h, (hl)
a, (mario_y)
l, a
                                                                           ld
ld
                                                                                           1, a
sub_0_2333
                                                                           call
0000:1CE4 CD 33 23
0000:1CE7 7D
0000:1CE8 32 05 62
0000:1CEB
0000:1CEB
0000:1CEB 21 0F 62
                                                                           1d
                                                                                           (mario_y), a
                                           loc 0 1CEB:
                                                                                                                                                                        ; CODE XREF: sub 0 1AC3+219<sup>†</sup> †
                                                                                          h1, unk_0_620F
(h1)
loc_0_1DA6
                                                                           ld
 0000:1CEE 35
0000:1CEF C3 A6 1D
                                                                           dec
jp
 0000:1CF2
 0000:1CF2
0000:1CF2
0000:1CF2 3A 0F 62
0000:1CF5 A7
0000:1CF6 C2 8A 1D
0000:1CF9 3E 03
0000:1CFB 32 0F 62
                                            loc_0_1CF2:
                                                                                                                                                                         ; CODE XREF: sub_0_1AC3+7A j
                                                                                          a, (unk_0_620F)
                                                                           ld
                                                                                                                                                                         ; check timer
                                                                           and
jp
ld
                                                                                                                                                                         ; expired?
                                                                                          nz, loc_0_1D8A
                                                                                                                                                                         ; no, skip
                                                                                           (unk_0_620F), a
                                                                                                                                                                         ; reset timer
                                                                           ld
 0000:1CFE 3E 02
0000:1D00 C3 11 1D
0000:1D03
0000:1D03
                                                                           1d
                                                                                          loc_0_1D11
0000:1D03
0000:1D03 3A 0F 62
0000:1D06 A7
0000:1D07 C2 76 1D
0000:1D0A 3E 04
0000:1D0C 32 0F 62
0000:1D0F 3E FE
                                                                                                                                                                         ; CODE XREF: sub_0_1AC3+87 j
                                           loc_0_1D03:
                                                                           ld
                                                                                          a, (unk_0_620F)
                                                                           and
                                                                                                                                                                         ; expired?
                                                                                          nz, loc_0_1D76
                                                                           jp
ld
                                                                                                                                                                         ; no. skip
                                                                                         a, 4
(unk_0_620F), a
a, 0FEh; '•
                                                                           ld
 0000:1D11
0000:1D11
0000:1D11 21 05 62
0000:1D14 86
0000:1D15 77
0000:1D16 47
0000:1D17 3A 22 62
0000:1D1A EE 01
                                            loc_0_1D11:
                                                                                         hl, mario_y
a, (hl)
(hl), a
b, a
a, (unk_0_6222)
1
                                                                                                                                                                         ; CODE XREF: sub_0_1AC3+23D<sup>†</sup> j
                                                                           add
ld
                                                                           ld
ld
UUUU:1D1A EE 01
0000:1D1C 32 22 62
0000:1D1F C2 51 1D
0000:1D22 78
0000:1D23 C6 08
0000:1D25 21 1C C6
                                                                           xor
                                                                                           (unk 0 6222)
                                                                           1d
                                                                           jp
ld
                                                                                          nz, l
                                                                                                  loc_0_1D51
                                                                           add
                                                                                           a. 8
 0000:1D25 21 1C 62
0000:1D28 BE
0000:1D29 CA 67 1D
                                                                           ld
cp
                                                                                          hl, unk_0_621C (hl)
                                                                                                                                                                         ; bottom y coordinate of ladder
; stop from climbing
                                                                                           z, loc_0_1D67
                                                                           jp
dec
 0000:1D2C 2D
                                                                           sub
jp
ld
                                                                                                                                                                         ; top y coordinate of ladder
; stop from climbing
 0000:1D2D 96
                                                                                           (hl)
0000:1D2D 96
0000:1D2E CA 67 1D
0000:1D31 06 05
0000:1D33 D6 08
0000:1D35 CA 3F 1D
0000:1D38 05
0000:1D39 D6 04
                                                                                          z, loc_0_1D67
b, 5
                                                                                          z, loc_0_1D3F
b
                                                                           sub
                                                                           jp
dec
                                                                           sub
 0000:1D3B CA 3F 1D
                                                                           jp
dec
                                                                                           z. loc 0 1D3F
 0000:1D3E 05
0000:1D3F
                                                                                                                                                                         ; CODE XREF: sub_0_1AC3+272<sup>†</sup>j; sub_0_1AC3+278<sup>†</sup>j
                                           loc 0 1D3F:
 0000:1D3F
 0000:1D3F 3E 80
0000:1D3F
0000:1D41 21 07 62
                                                                                          a, 80h ; 'C'
hl, mario_sprite_tile
(hl)
                                                                           ld
                                                                           and
xor
 0000:1D44 A6
                                                                                           80h; 'Ç'
 0000:1D45 EE 80
                                                                                                                                                                         ; hflip mario
```

ld nop ld

ld ld

ld

1d

a, 40h; '@' (unk\_0\_6341), a

(unk\_0\_6340), a a, (unk\_0\_6342) (unk\_0\_6340)

0000:1DC8 00 0000:1DC9 3E 40 0000:1DCB 32 41 63 0000:1DCE 3E 02 0000:1DD0 32 40 63

0000:1DD3 3A 42 63 0000:1DD6 1F

```
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```

nc
a, (mario\_x)

a, 0 c, loc\_0\_1E74 a, 80h; 'Ç'

(soft\_sprite\_ram+4Dh), a
loc\_0\_1E85

; CODE XREF: sub\_0\_1E57+26 | j

; CODE XREF: sub 0 1E57+18 j

; CODE XREF:  $sub_0_1E57+C\uparrow j$ 

rla

ld

ld

loc\_0\_1E6D:

loc 0 1E74:

loc\_0\_1E7A:

3E 00

0000:1E6F DA 74 1E 0000:1E72 3E 80 0000:1E74

0000:1E74 32 4D 69 0000:1E77 C3 85 1E 0000:1E7A

0000:1E6D

0000:1E74

0000:1E7# 0000:1E7A

```
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```

```
0000:1E7A FE 31
                                                                               31h ; '1'
0000:1E7C D0
0000:1E7D C3 6D 1E
                                                                 ret
                                                                               loc_0_1E6D
                                                                                                                                                   ; CODE XREF: sub 0 1E57+5 †
                                      loc_0_1E80:
0000:1E80
0000:1E80 3A 90 62
0000:1E83 A7
0000:1E84 C0
                                                                 ld
                                                                               a, (unk_0_6290)
                                                                 and
ret
                                                                               nz
0000:1E85
0000:1E85
0000:1E85 3E 16
0000:1E87 32 0A 60
                                      loc_0_1E85:
                                                                                                                                                   ; CODE XREF: sub_0_1E57+20 j
                                                                 ld
                                                                               (main_sequencer), a
0000:1E8A E1
0000:1E8B C9
0000:1E8B
0000:1E8B
                                                                 pop
ret
                                                                               hl
                                      ; End of function sub_0_1E57
0000:1E8C
0000:1E8C
                                                                SUBROUTINE
0000:1E8C
0000:1E8C
0000:1E8C
0000:1E8C 3A 50 63
0000:1E8F A7
                                      sub_0_1E8C:
                                                                                                                                                   ; CODE XREF: 0000:197D p
                                                                               a, (unk_0_6350)
                                                                 and
0000:1E8F A7
0000:1E90 C8
0000:1E91 CD 96 1E
0000:1E94 E1
0000:1E95 C9
0000:1E95
0000:1E96
0000:1E96
                                                                 ret
                                                                               sub_0_1E96
                                                                 call
                                                                 pop
                                                                 ret
                                      ; End of function sub 0 1E8C
                                                               SUBROUTINE
0000:1E96
0000:1E96
0000:1E96
0000:1E96 3A 45 63
                                      sub_0_1E96:
                                                                                                                                                    ; CODE XREF: sub_0_1E8C+5\p
                                                                 ld
                                                                               a, (unk_0_6345)
0000:1E90 5A 45
0000:1E99 EF
0000:1E99 0000:1E9A AO 1E
                                                                 rst
                                                                               28h
                                                                                                                                                    ; go!
                                                                 .dw loc_0_1EA0
0000:1E9C 09 1F
0000:1E9E 23 1F
0000:1EA0
0000:1EA0
                                                                  .dw loc_0_1F09
                                                                                                                                                    ; Jump table
0000:1EA0
0000:1EA0 3A 52 63
0000:1EA3 FE 65
0000:1EA8 CA B4 1E
0000:1EAB 21 D0 69
0000:1EAE DA B4 1E
                                                                                                                                                    ; DATA XREF: sub 0 1E96+41o
                                      loc_0_1EA0:
                                                                               a, (unk_0_6352)
65h; 'e'
                                                                                                                                                    ; hammer just hit something
                                                                 ld
                                                                              hl, soft_sprite_ram+0B8h
z, loc_0_1EB4
hl, soft_sprite_ram+0D0h
c, loc_0_1EB4
hl, soft_sprite_ram+80h
                                                                 cp
1d
                                                                                                                                                   ; process hammer hit effect (start)
                                                                 jp
ld
                                                                                                                                                   ; fireball area in sprite ram
                                                                 jp
1d
0000:1EB1 21 80 69
0000:1EB4
0000:1EB4
0000:1EB4 DD 2A 51 63
                                     loc_0_1EB4:
                                                                                                                                                    ; CODE XREF: sub_0_1E96+12<sup>†</sup>j; sub_0_1E96+18<sup>†</sup>j
                                                                               ix, (unk_0_6351)
0000:1EB4
                                                                 1d
0000:1EB4
0000:1EB8 16 00
0000:1EBA 3A 53 63
0000:1EBD 5F
                                                                 ld
ld
ld
                                                                               d, 0
                                                                              a, (unk_0_6353)
e, a
ld
ld
and
                                                                               bc, 4
a, (unk_0_6354)
a
                                                                               z, loc_0_1ECF
                                                                 qŗ
                                     loc_0_1EC8:
                                                                                                                                                   ; CODE XREF: sub_0_1E96+36|j
                                                                 add
                                                                               ix, de
                                                                               nz, loc_0_1EC8
                                                                 jр
0000:1ECF
                                     loc_0_1ECF:
                                                                                                                                                   ; CODE XREF: sub 0 1E96+2F1 j
0000:1ECF DD 36 00 00 00 0000:1ED5 DD 7E 15 0000:1ED6 A7 0000:1ED7 ED 02 0000:1ED9 CA DE 1E 0000:1EDC 3E 04 0000:1EDE 0000:1EDE 0000:1EDE 0000:1EDE 0000:1EDE 0000:1EDE
                                                                               (ix+0), 0 \\ a, (ix+15h)
                                                                 14
                                                                 ld
                                                                 and
                                                                               а
                                                                 1d
                                                                 jp
ld
                                                                               z, loc_0_1EDE
0000:1EDE
                                     loc_0_1EDE:
                                                                                                                                                   ; CODE XREF: sub 0 1E96+431 j
                                                                              (unk_0_6342), a
bc, soft_sprite_ram+12Ch
a, (hl)
0000:1EDE
0000:1EDE 32 42 63
0000:1EE1 01 2C 6A
0000:1EE4 7E
0000:1EE5 36 00
0000:1EE7 02
0000:1EE8 0C
                                                                 ld
ld
                                                                 ld
                                                                               (hl), 0
(bc), a
                                                                 ld
ld
                                                                                                                                                    ; flash sprite x coord
                                                                 inc
                                                                               1
0000:1EE9 2C
                                                                 inc
0000:1EE9 2C
0000:1EEA 3E 60
0000:1EEC 02
0000:1EED 0C
0000:1EEE 2C
0000:1EEF 3E 0C
0000:1EF1 02
0000:1EF2 0C
                                                                                   60h ; '`'
                                                                 ld
ld
                                                                                                                                                   ; initial hit sprite character
; flash sprite character
                                                                               (bc), a
                                                                 inc
                                                                               c
1
                                                                 ld
ld
                                                                                   0Ch
                                                                               (bc), a
                                                                 inc
0000:1EF3 2C
0000:1EF4 7E
0000:1EF5 02
0000:1EF6 21 45 63
                                                                 inc
ld
ld
ld
                                                                               1
                                                                                   (h1)
                                                                               (bc), a
                                                                                                                                                   ; flash sprite y coord
                                                                               hl. unk 0 6345
0000:1EF0 21 45
0000:1EF9 34
0000:1EFA 2C
0000:1EFB 36 06
                                                                 inc
inc
                                                                               (hl)
                                                                               (hl), 6
0000:1EFD 2C
                                                                 inc
UUUU:1EFD 2C

0000:1EFE 36 05

0000:1F00 21 8A 60

0000:1F03 36 06

0000:1F05 2C

0000:1F06 36 03

0000:1F08 C9
                                                                               (h1), 5
h1, unk_0_608A
(h1), 6
                                                                 ld
                                                                 ld
                                                                 inc
                                                                 ld
                                                                               (hl), 3
                                                                 ret
                                      ; End of function sub 0 1E96
0000:1F08
0000:1F08
                                                                                                                                                    ; DATA XREF: sub_0_1E96+6<sup>†</sup>o ; process hammer hit effect (middle)
                                     loc 0 1F09:
0000:1F09
0000:1F09 21 46 63
0000:1F0C 35
0000:1F0D C0
                                                                 ld
dec
ret
                                                                              hl, unk_0_6346 (hl)
                                                                               nz
                                                                              (hl), 6
0000:1F0E 36 06
0000:1F10 2C
                                                                 1d
```

```
z, loc_0_1F1D
hl, 6A2Dh
a, (hl)
 0000:1F12 CA 1D 1F
0000:1F15 21 2D 6A
0000:1F18 7E
0000:1F19 EE 01
                                                                                              jp
ld
ld
                                                                                                                                                                                                                   ; animate hit flash
                                                                                              xor
 0000:1F1B 77
0000:1F1C C9
0000:1F1D
0000:1F1D
                                                                                                                 (hl), a
                                                                                              1d
                                                      loc 0 1F1D:
                                                                                                                                                                                                                   ; CODE XREF: 0000:1F12† j
 0000:1F1D
 0000:1F1D
0000:1F1D 36 04
0000:1F1F 2D
0000:1F20 2D
                                                                                             ld
dec
dec
                                                                                                                 (hl), 4
 0000:1F21 34
0000:1F22 C9
0000:1F23
0000:1F23
                                                                                              inc
                                                                                                                 (hl)
0000:1F23
0000:1F23 21 46 63
0000:1F26 35
0000:1F27 C0
0000:1F28 36 0C
0000:1F28 35
0000:1F2B 35
0000:1F2B 35
0000:1F2B 35
0000:1F2C CA 34 1F
0000:1F35 2D
0000:1F34
0000:1F34
0000:1F34
0000:1F34
0000:1F35 2D
0000:1F35 2D
0000:1F36 AF
0000:1F36 AF
0000:1F37 77
0000:1F38 32 50 63
0000:1F38 32 50 63
0000:1F36 AF
0000:1F36 AF
0000:1F46 AF
0000:1F46 0000:1F46
0000:1F46 0000:1F46
0000:1F46 0000:1F46
0000:1F46 0000:1F46 32 04 62
0000:1F46 AF
0000:1F46 32 04 62
                                                                                                                                                                                                                   ; DATA XREF: sub_0_1E96+8<sup>†</sup>o
; process hammer hit effect (end)
                                                      loc_0_1F23:
                                                                                             ld
dec
                                                                                                                 hl, unk_0_6346 (hl)
                                                                                              ret
                                                                                                                 nz
                                                                                              ld
inc
                                                                                                                  (hl), OCh
                                                                                                                 1
(hl)
                                                                                              dec
                                                                                                                 z, loc_0_1F34
hl, soft_sprite_ram+12Dh
(hl)
                                                                                              jp
ld
inc
                                                                                                                                                                                                                   ; animate hit flash
                                                                                              ret
                                                      loc_0_1F34:
                                                                                                                                                                                                                   ; CODE XREF: 0000:1F2C<sup>†</sup>j
                                                                                                                 1
                                                                                              dec
                                                                                              xor
ld
ld
                                                                                                                 (hl), a
(unk_0_6350), a
                                                                                                                                                                                                                  ; stop effect process
                                                                                                                 (unk_0_6340), a
hl, soft_sprite_ram+12Ch
(unk_0_6343), hl
                                                                                              ld
ld
                                                                                              ld
                                                                                             SUBROUTINE
                                                       sub_0_1F46:
                                                                                                                                                                                                                   ; CODE XREF: 0000:19A4\p
                                                                                                                 a, (unk_0_6221)
a
                                                                                              ld
                                                                                              and
                                                                                              ret
                                                                                              xor
                                                                                             ld
ld
ld
ld
                                                                                                                  (unk_0_6204), a
                                                                                                                 (unk_0_6206), a
(unk_0_6221), a
(unk_0_6210), a
 0000:1F58 32 11 62
0000:1F58 32 12 62
0000:1F5E 32 13 62
0000:1F61 32 14 62
                                                                                              ld
ld
ld
ld
                                                                                                                 (unk_0_6211), a
(unk_0_6212), a
(unk_0_6213), a
(unk_0_6214), a
0000:1F61 32 14 62
0000:1F64 3C
0000:1F68 32 16 62
0000:1F68 32 0F 62
0000:1F6B 3A 05 62
0000:1F71 C9
0000:1F71
0000:1F71
0000:1F72
0000:1F72
0000:1F72
0000:1F72
                                                                                              inc
                                                                                              ld
ld
                                                                                                                  (mario_jumping), a (unk_0_621F), a
                                                                                              ld
                                                                                                                 a, (mario_y)
(unk_0_620E), a
                                                                                              ld
                                                       ret; End of function sub_0_1F46
                                                                                            SUBROUTINE |
 0000:1F72
 0000:1F72
0000:1F72
0000:1F72 3A 27 62
0000:1F75 3D
0000:1F76 C0
0000:1F76 DD 21 00 67
0000:1F77 DD 21 00 67
0000:1F78 21 80 69
0000:1F7E 11 20 00
                                                       sub_0_1F72:
                                                                                                                                                                                                                   ; CODE XREF: 0000:19831p
                                                                                                                 a, (level_type)
                                                                                              dec
                                                                                                                a

nz

ix, unk_0_6700

hl, soft_sprite_ram+80h

de, 20h; '''
                                                                                              ret
ld
ld
                                                                                              ld
0000:1F7E 11 20 00
0000:1F81 06 0A
0000:1F83
0000:1F83 DD 7E 00
0000:1F86 3D
0000:1F86 3D
0000:1F8A 2C
0000:1F8B 2C
                                                                                              ld
                                                      loc_0_1F83:
                                                                                                                                                                                                                 ; CODE XREF: sub_0_1F72+1E|j
                                                                                              ld
                                                                                                                 a.(ix+0)
                                                                                              jр
                                                                                                                  z, loc_0_1F93
                                                                                              inc
                                                                                              inc
 0000:1F8B 2C
0000:1F8C 2C
0000:1F8D
0000:1F8D
0000:1F8D 2C
0000:1F8E DD 19
0000:1F90 10 F1
0000:1F92 C9
                                                                                                                 1
                                                                                                                                                                                                                  ; CODE XREF: 0000:21CE-i
                                                      loc 0 1F8D:
                                                                                              inc
                                                                                              add
                                                                                                                  ix. de
                                                                                                                 loc_0_1F83
 0000:1F93
0000:1F93
0000:1F93
0000:1F93 DD 7E 01
                                                      loc_0_1F93:
                                                                                                                                                                                                                   ; CODE XREF: sub_0_1F72+15 j
                                                                                              ld
                                                                                                                 a, (ix+1)
 0000:1F96 3D
0000:1F96 3D
0000:1F97 CA EC 20
0000:1F9A DD 7E 02
                                                                                              dec
                                                                                              jp
ld
                                                                                                                  z, loc_0_20EC
                                                                                                                 a, (ix+2)
 0000:1F9D 1F
                                                                                              rra
0000:1F9D 1F
0000:1F9E DA AC 1F
0000:1FA1 1F
0000:1FA2 DA E5 1F
0000:1FA5 1F
0000:1FA6 DA EF 1F
0000:1FA6 DA EF 1F
0000:1FAC
                                                                                              jp
rra
                                                                                                                 c, loc_0_1FAC
                                                                                                                 c, loc 0 1FE5
                                                                                              jp
rra
                                                                                                                 c, loc_0_1FEF
loc_0_2053
                                                                                              qį
qį
 0000:1FAC
0000:1FAC D9
0000:1FAD DD 34 05
0000:1FAD DD 7E 17
0000:1FB3 DD BE 05
0000:1FB6 C2 CE 1F
                                                       loc_0_1FAC:
                                                                                                                                                                                                                   ; CODE XREF: sub_0_1F72+2C<sup>†</sup> j
                                                                                              exx
                                                                                              inc
ld
                                                                                                                 (ix+5)
                                                                                                                a, (ix+17h)
(ix+5)
nz, loc_0_1FCE
a, (ix+15h)
                                                                                              ср
                                                                                              jp
ld
 0000:1FB9 DD 7E 15
 0000:1FBC 07
                                                                                              rlca
```

```
0000:1FBD 07
0000:1FBD 07
0000:1FBC C6 15
0000:1FC0 DD 77 07
0000:1FC3 DD 7E 02
0000:1FC6 EE 07
0000:1FC6 DD 77 02
0000:1FCB C3 BA 21
0000:1FCE
0000:1FCE
                                                                             add
                                                                                                   15h
                                                                                                                                                                               ; switch downwards (sideways) barrel to rolling barrel
                                                                             ld
ld
                                                                                             (ix+7), a
a, (ix+2)
                                                                             xor
                                                                                              (ix+2),
                                                                             1d
                                                                                              loc_0 21BA
                                                                             jр
                                                                                                                                                                               ; CODE XREF: sub_0_1F72+44<sup>†</sup> j ; sub_0_1F72+199<sup>†</sup> j
                                            loc 0 1FCE:
0000:1FCE
0000:1FCE DD 7E 0F
0000:1FCE
0000:1FD1 3D
                                                                             ld
                                                                                             a, (ix+0Fh)
                                                                             dec
0000:1FD2 C2 DF 1F
0000:1FD5 DD 7E 07
0000:1FD8 EE 01
0000:1FDA DD 77 07
                                                                             jp
ld
                                                                                             nz, loc_0_1FDF a, (ix+7)
                                                                                                                                                                               ; animate sideways barrel sprite
                                                                             xor
                                                                                              (ix+7), a
                                                                             ld
0000:1FDA DD 77 07
0000:1FDD 3E 04
0000:1FDF
0000:1FDF 0000:1FDF DD 77 0F
0000:1FDZ C3 BA 21
0000:1FE5 0000:1FE5
                                                                             ld
                                             loc_0_1FDF:
                                                                                                                                                                               ; CODE XREF: sub_0_1F72+60 j
                                                                             ld
                                                                                              (ix+0Fh)
                                                                                             loc 0 21BA
                                                                                                                                                                              ; CODE XREF: sub 0 1F72+301 i
                                             loc_0_1FE5:
0000:1FE5
0000:1FE5 D9
0000:1FE5 D9
0000:1FE6 01 00 01
0000:1FE9 DD 34 03
0000:1FEC C3 F6 1F
0000:1FEF
0000:1FEF
                                                                             exx
ld
                                                                                             bc, 100h
                                                                             inc
                                                                                              (ix+3)
                                                                                             loc 0 1FF6
                                                                             jp
                                             loc_0_1FEF:
                                                                                                                                                                               ; CODE XREF: sub_0_1F72+34 j
0000:1FEF D9
0000:1FF0 01 04 FF
0000:1FF3 DD 35 03
0000:1FF6
                                                                             exx
ld
                                                                                             bc, 0FF04h (ix+3)
                                                                             dec
0000:1FF6
0000:1FF6 DD 66 03
0000:1FF9 DD 6E 05
0000:1FFC 7C
                                            loc_0_1FF6:
                                                                                                                                                                              ; CODE XREF: sub_0_1F72+7A j
                                                                             ld
ld
                                                                                             h, (ix+3)
1, (ix+5)
0000:1FFC 7C
0000:1FFD E6 07
0000:1FFF FE 03
0000:2001 CA 5F 21
0000:2004 2D
0000:2005 2D
0000:2006 2D
0000:2006 2D
                                                                             1d
                                                                                             a, h
7
                                                                             and
                                                                                             z, loc 0 215F
                                                                             jp
dec
                                                                             dec
                                                                             call
                                                                                             sub 0 2333
0000:200A 2C
0000:200B 2C
0000:200C 2C
0000:200D 7D
                                                                             inc
inc
inc
ld
                                                                                             a, 1
(ix+5), a
sub_0_23DE
0000:200D 7D
0000:200E DD 77 05
0000:2011 CD DE 23
0000:2014 CD B4 24
0000:2017 DD 7E 03
0000:201A FE 1C
0000:201C DA 2F 20
0000:201F FE E4
                                                                             ld
call
                                                                             call
                                                                                             sub_0_24B4
                                                                             1d
                                                                                             a,
1Ch
                                                                                                   (ix+3)
                                                                             cp
jp
                                                                                             c, loc_0_202F
0E4h ; 'õ'
                                                                             cp
jp
xor
ld
0000:201F FE E4
0000:2021 DA BA 21
0000:2024 AF
0000:2025 DD 77 10
0000:2028 DD 36 11 60
0000:202C C3 38 20
                                                                                              c, loc_0_21BA
                                                                                              a
(ix+10h), a
'ix+11h), 60h; '`'
                                                                             ld
                                                                                             (ix+11h), loc_0_2038
                                                                             jр
0000:202F
0000:202F
0000:202F
0000:202F AF
0000:2030 DD 36 10 FF
0000:2034 DD 36 11 A0
0000:2038
                                            loc 0 202F:
                                                                                                                                                                               ; CODE XREF: sub 0 1F72+AA † j
                                                                             xor
                                                                                             a
(ix+10h), 0FFh
(ix+11h), 0A0h; 'á'
                                                                             ld
0000:2038

0000:2038 DD 36 12 FF

0000:203C DD 36 13 F0

0000:2040 DD 77 14

0000:2043 DD 77 04

0000:2049 DD 77 04

0000:2049 DD 77 06

0000:204C DD 36 02 08

0000:2050 C3 BA 21

0000:2053

0000:2053
0000:2038
                                            loc_0_2038:
                                                                                                                                                                              ; CODE XREF: sub_0_1F72+BA j
                                                                                             (ix+12h), 0FFh
(ix+13h), 0F0h;
(ix+14h), a
(ix+0Eh), a
(ix+4), a
(ix+6), a
                                                                             ld
                                                                             ld
ld
ld
                                                                             ld
                                                                             1d
                                                                                               (ix+2)
                                                                             jp
                                                                                             loc_0_21BA
loc_0_2053:
                                                                                                                                                                              ; CODE XREF: sub_0_1F72+37 j
                                                                             exx
call
                                                                                             sub_0_239C
                                                                             call
                                                                                             sub_0_2A2F
                                                                             and
jp
ld
                                                                                             nz, loc_0_2083
                                                                                             a, (ix+3)
a, 8
                                                                             add
                                                                             cp
jp
call
                                                                                             10h
c, loc_0_2079
sub_0_24B4
                                                                                             a, (ix+10h)
0000:206B DD 7E 10
0000:206E E6 01
0000:2070 07
0000:2071 07
                                                                             ld
and
rlca
                                                                             rlca
0000:2072 4F
0000:2073 CD DE 23
0000:2076 C3 BA 21
0000:2079
                                                                             ld
                                                                             call
                                                                                              sub_0_23DE
                                                                                              loc_0_21BA
                                                                             jр
0000:2079
0000:2079
0000:2079
0000:2079 AF
0000:207A DD 77 00
0000:207D DD 77 03
0000:2080 C3 BA 21
                                             loc_0_2079:
                                                                                                                                                                               ; CODE XREF: sub_0_1F72+F3<sup>†</sup>j
                                                                             xor
                                                                                             a
(ix+0), a
                                                                             ld
                                                                                             (ix+3), a
loc_0_21BA
                                                                             1d
                                                                             jр
0000:2083
0000:2063
0000:2083
0000:2083 DD 34 0E
0000:2086 DD 7E 0E
                                             loc_0_2083:
                                                                                                                                                                               ; CODE XREF: sub_0_1F72+E9<sup>†</sup>j
                                                                                              (ix+OEh)
                                                                             ld
                                                                                             a, (ix+0Eh)
 0000:2089
                    3D
0000:2009 3D
0000:208A CA A2 20
0000:208D 3D
                                                                             jp
                                                                                             z, loc_0_20A2
0000:208E CA C3 20
                                                                                             z, loc_0_20C3
                                                                             jp
ld
0000:2091 DD 7E 10
```

; CODE XREF: sub 0 1F72+8F<sup>†</sup> j

loc 0 21BA

a, 1 a, 5 d, a

a, h bc, 15h

sub\_0\_216D

loc\_0\_21BA

jp

ld

add ld ld

ld call

jр

; End of function sub 0 1F72

loc 0 215F:

0000:215F

0000:216A 0000:216A

0000:215F 7D

0000:215F 7D 0000:2160 C6 05 0000:2162 57 0000:2163 7C 0000:2164 01 15 00 0000:2167 CD 6D 21 0000:2168 C3 BA 21

0000:2207

```
0000:216D
                                                       SUBROUTINE
0000:216D
0000:216D
                                           sub_0_216D:
                                                                                                                                                                        ; CODE XREF: sub_0_1F72+1F5\p
0000:216D CD 6E 23
0000:2170 3D
0000:2171 CO
0000:2172 78
                                                                          call
                                                                                         sub_0_236E
                                                                          ret
ld
                                                                                         nz
a, b
0000:2172 78
0000:2173 D6 05
0000:2175 DD 77 17
0000:2178 3A 48 63
0000:2178 A7
                                                                          sub
                                                                          ld
ld
                                                                                          (ix+17h)
                                                                                         a, (unk_0_6348)
                                                                          and
                                                                                         z, loc_0_21B2
a, (mario_y)
4
0000:2176 A7
0000:2176 CA B2 21
0000:2177 3A 05 62
0000:2182 D6 04
                                                                          jp
ld
                                                                          sub
0000:2184 BA
                                                                                         d
                                                                          ср
0000:2185 D8
0000:2185 D8
0000:2186 3A 80 63
0000:2189 1F
                                                                          ret
ld
                                                                                         c
a, (unk_0_6380)
                                                                          rra
0000:218A 3C
0000:218B 47
0000:218C 3A 18 60
0000:218F 4F
                                                                          inc
                                                                                        b, a
a, (random_no)
                                                                          ld
                                                                          ld
                                                                          ld
0000:218F 4F
0000:2190 E6 03
                                                                          and
0000:2192 B8
0000:2193 D0
                                                                          cp
ret
0000:2194 21 10 60
0000:2194 21 10 60
0000:2197 3A 03 62
0000:219A BB
0000:219B CA B2 21
0000:219E D2 A9 21
                                                                                         hl, controller_in
                                                                          ld
ld
                                                                                        hl, controller
a, (mario_x)
e
z, loc_0_21B2
nc, loc_0_21A9
0, (hl)
z, loc_0_21AE
loc_0_21B2
                                                                          ср
                                                                         jp
jp
bit
0000:21A1 CB 46
0000:21A3 CA AE 21
0000:21A6 C3 B2 21
0000:21A9
                                                                                                                                                                       ; right?
; no, skip
                                                                          jp
                                                                          jр
0000:21A9
0000:21A9
0000:21A9
0000:21A9 CB 4E
                                           loc_0_21A9:
                                                                                                                                                                        ; CODE XREF: sub_0_216D+31 j
                                                                                          1, (hl)
                                                                          bit
                                                                                                                                                                       ; left?
; yes, skip
                                                                                         nz, loc_0_21B2
0000:21AB C2 B2 21
                                                                         jр
0000:21AE
0000:21AE
0000:21AE
                                                                                                                                                                        ; CODE XREF: sub_0_216D+36<sup>†</sup>j
                                           loc_0_21AE:
                                                                         1d
                                                                                         a, 0
18h
0000:21AF E6 18
0000:21B1 C0
0000:21B2
                                                                          and
                                                                                         nz
                                                                                                                                                                       ; CODE XREF: sub_0_216D+F<sup>†</sup>j
; sub_0_216D+ZE<sup>†</sup>j ...
; sprite tile #
; switch rolling barrel to going-down-ladder barrel
0000:21B2
                                          loc 0 21B2:
0000:21B2 DD 34 07
0000:21B2 DD 34 07
0000:21B2
0000:21B5 DD CB 02 C6
0000:21B9 C9
                                                                         inc
set
                                                                                        (ix+7)
0, (ix+2)
                                                                          ret
0000:21B9
0000:21B9
0000:21BA
                                           ; End of function sub_0_216D
0000:21BA
0000:21BA
0000:21BA
0000:21BA D9
0000:21BA
                                          loc_0_21BA:
                                                                                                                                                                       ; CODE XREF: sub_0_1F72+59\uparrow j; sub_0_1F72+70\uparrow j ...
                                                                          exx
0000:21BB DD 7E 03
0000:21BE 77
0000:21BF 2C
0000:21C0 DD 7E 07
0000:21C3 77
                                                                          ld
ld
inc
ld
                                                                                         a, (ix+3)
(h1), a
                                                                                                                                                                       ; set sprite X
                                                                                         1
a, (ix+7)
                                                                                                                                                                       ; set sprite tile #
                                                                                          (hl), a
                                                                          ld
0000:21C3 77
0000:21C4 2C
0000:21C5 DD 7E 08
0000:21C8 77
                                                                          inc
ld
                                                                                        l
a, (ix+8)
(hl), a
                                                                                                                                                                       ; set sprite vflip & palette
0000:21C8 77
0000:21C9 2C
                                                                          ld
                                                                                        1
a, (ix+5)
(h1), a
0000:21C9 2C
0000:21CA DD 7E 05
0000:21CD 77
                                                                          ld
                                                                                                                                                                        ; set sprite Y
0000:21CD 77
0000:21CE C3 8D 1F
                                                                          ld
                                                                                         (hl), a
loc_0_1F8D
                                                                          jр
0000:21CE
0000:21CE
0000:21D1 80 FE
0000:21D1
                                           attract_mario_inputs:.dw 0FE80h
                                                                                                                                                                       ; DATA XREF: next_attract_action or is 1st byte is input, 2nd is timer
0000:21D3 01 C0
0000:21D5 04 50
0000:21D7 02 10
0000:21D9 82 60
                                                                          .dw 0C001h
                                                                          .dw
.dw
                                                                                 5004h
1002h
                                                                          .dw
                                                                                 6082h
0000:21DB 02 10
0000:21DB 02 10
0000:21DD 82 CA
0000:21DF 01 10
                                                                          .dw
.dw
.dw
                                                                                 1002h
                                                                                  0CA82h
1001h
0000:21E1 81 FF
                                                                                 0FF81h
                                                                           .dw
0000:21E1 01 FP
0000:21E3 02 38
0000:21E5 01 80
0000:21E7 02 FF
                                                                          .dw
                                                                                  3802h
                                                                          .dw
0000:21E9 04 80
                                                                          .dw 8004h
0000:21EB 04 60
0000:21ED 80
0000:21EE
0000:21EE
                                                                          .dw 6004h
.db 80h
                                                                         SUBROUTINE
0000:21EE
0000:21EE
0000:21EE
                                          next_attract_action:
                                                                                                                                                                       ; CODE XREF: 0000:1977 p
0000:21EE 11 D1 21
0000:21F1 21 CC 63
0000:21F4 7E
0000:21F5 07
                                                                         ld
ld
ld
                                                                                        de, attract_mario_inputs
hl, attract_movement_entry
a, (hl)
                                                                                                                                                                        ; get entry
; convert to word
                                                                          rlca
0000:21F5 07

0000:21F6 83

0000:21F7 5F

0000:21F8 1A

0000:21F9 32 10 60

0000:21FC 2C

0000:21FD 7E

0000:21FE 35
                                                                                                                                                                       ; add to base
; ptr to entry
; 1st byte of entry
; store simulated inputs
                                                                                         a, e
e, a
a, (de)
                                                                          add
                                                                          ld
ld
                                                                                          (controller in), a
                                                                          1d
                                                                                         a, (hl) (hl)
                                                                          ld
                                                                                                                                                                       ; get movement timer
; done?
                                                                          dec
and
0000:21FF A7
                                                                                                                                                                       ; no, return
; ptr 2nd byte of entry
; get 2nd byte
; store as timer
; back to entry
; next entry
0000:21PF A7
0000:2200 C0
0000:2201 1C
0000:2202 1A
0000:2203 77
                                                                          ret
                                                                                               (de)
                                                                          1d
                                                                                          (hl), a
                                                                          ld
                                                                          dec
                                                                                         (hl)
0000:2206 C9
                                                                          ret
0000:2206
0000:2206
0000:2207
                                          ; End of function next_attract_action
                                           ; SUBROUTINE
0000:2207
```

```
0000:2207

0000:2207 3E 02

0000:2209 F7

0000:2200 3A 1A 60

0000:220D 1F

0000:2211 7E

0000:2212 DA 19 22

0000:2212 DA 19 22

0000:2212 DA 19 22

0000:2212 DA 19 22

0000:2219 TE
                                                                                                                                                                                               ; CODE XREF: 0000:199B p
                                                 sub 0 2207:
                                                                                                     a, 2
30h
                                                                                    1d
                                                                                    rst
ld
                                                                                                                                                                                              ; return if level bit not set
                                                                                                      a, (gen_purpose_timer)
                                                                                    rra
ld
ld
                                                                                                     hl, unk_0_6280
a, (hl)
c, loc_0_2219
hl, unk_0_6288
a, (hl)
                                                                                     jp
ld
                                                                                     ld
                                                 loc_0_2219:
                                                                                                                                                                                              ; CODE XREF: sub_0_2207+B<sup>†</sup>j
0000:2219 E5
0000:221A EF
0000:221B 27
0000:221C 22 59 22
0000:221F 99
0000:2220 22 A2 22
0000:2223 00
                                                                                    push
rst
daa
                                                                                                     hl
28h
                                                                                                                                                                                               ; go!
                                                                                                      (loc 0 2259), hl
                                                                                     ld
                                                                                     sbc
ld
                                                                                                     (loc_0_22A2), hl
                                                                                     nop
0000:2224 00
0000:2225 00
0000:2226 00
0000:2227 E1
                                                                                     nop
                                                                                                     hl
                                                                                    pop
inc
dec
jp
dec
inc
inc
call
0000:2228 2C
0000:2229 35
0000:2229 35
0000:222A C2 3A 22
                                                                                                      (hl)
nz, loc_0_223A
0000:222A C2 3A 22

0000:222D 2D

0000:222E 34

0000:222F 2C

0000:2230 2C

0000:2231 CD 43 22

0000:2234 3E 01

0000:2236 32 1A 62

0000:2239 C9

0000:223A
                                                                                                       (hl)
                                                                                                      sub_0_2243
                                                                                    ld
ld
                                                                                                       (unk_0_621A), a
                                                                                     ret
0000:223A
0000:223A
0000:223A
0000:223A 2C
                                                 loc_0_223A:
                                                                                                                                                                                               ; CODE XREF: sub_0_2207+23 j
0000:223A 2C
0000:223B CD 43 22
0000:223F AF
0000:223F 32 1A 62
0000:2242 C9
0000:2242
0000:2243
0000:2243
                                                                                    call
                                                                                                      sub 0 2243
                                                                                                      (unk_0_621A), a
                                                                                     ret
                                                 ; End of function sub_0_2207
                                                               SUBROUTINE
0000:2243
0000: 2243
0000: 2243
0000: 2243
0000: 2243
3A 05 62
0000: 2246 FE 7A
0000: 2246 B2 57 22
0000: 224E A7
0000: 224E A7
0000: 224E A7
0000: 2255 BE
0000: 2255 BE
0000: 2257
0000: 2257
0000:2243
                                                                                                                                                                                               ; CODE XREF: sub_0_2207+2A<sup>†</sup>p; sub_0_2207+34<sup>†</sup>p ...
                                                 sub_0_2243:
                                                                                                     a, (mario_y)
7Ah; 'z'
nc, loc_0_2257
a, (mario_jumping)
a
                                                                                     ld
                                                                                     ср
                                                                                     jp
ld
                                                                                     and
                                                                                                      nz, loc_0_2257
a, (mario_x)
                                                                                     jp
ld
                                                                                    cp
ret
                                                                                                      (hl)
                                                                                                                                                                                               ; CODE XREF: sub_0_2243+5<sup>†</sup>j; sub_0_2243+C<sup>†</sup>j
                                                 loc_0_2257:
0000:2257 E1
0000:2257 E1
0000:2257
0000:2258 C9
0000:2258
0000:2259*
0000:2259*
0000:2259*
                                                                                                      hl
                                                 ; End of function sub_0_2243
                                                loc_0_2259:
                                                                                                                                                                                               ; DATA XREF: sub 0 2207+15 w
0000:2259*E1
0000:225A 2C
0000:225B 2C
                                                                                                     hl
1
1
                                                                                    pop
inc
inc
0000:225C 2C
0000:225D 2C
0000:225E 35
0000:225F C0
                                                                                    inc
inc
dec
ret
                                                                                                       (hl)
                                                                                                      nz
0000:225F CO
0000:2260 3E 04
0000:2262 77
0000:2263 2D
0000:2264 34
0000:2265 CD BD 22
0000:2268 3E 78
0000:226A BE
                                                                                    ld
ld
dec
inc
                                                                                                      a, 4
(hl), a
                                                                                                      (hl)
                                                                                     call
ld
                                                                                                      sub_0_22BD
                                                                                                      a, 78h; 'x'
(hl)
                                                                                     cp
jp
dec
dec
0000:220A BE
0000:226B C2 75 22
0000:226E 2D
0000:226F 2D
                                                                                                      nz, loc_0_2275
0000:2270 2D
0000:2271 34
                                                                                     dec
inc
                                                                                                      1
(hl)
0000:2271 34
0000:2272 2C
0000:2273 2C
0000:2274 2C
                                                                                    inc
inc
inc
0000:2275
0000:2275
0000:2275 2D
0000:2276 CD 43 22
0000:2279 3A 05 62
0000:227C FE 68
0000:227E D2 8A 22
                                                 loc_0_2275:
                                                                                                                                                                                              ; CODE XREF: 0000:226B|j
                                                                                    dec
call
                                                                                                      sub_0_2243
                                                                                                      a, (mario_y)

68h; 'h'

nc, loc_0_228A
                                                                                     ld
                                                                                     ср
                                                                                     jр
0000:227E D2 8A 22

0000:2281

0000:2281 21 05 62

0000:2288 34

0000:2288 34

0000:2288 34

0000:2288 09

0000:228A
                                                 loc_0_2281:
                                                                                                                                                                                              ; CODE XREF: 0000:228B j
                                                                                     ld
                                                                                                      hl, mario_y (hl)
                                                                                     inc
                                                                                                      sub_0_3FC0
                                                                                     call
                                                                                                      (hl)
                                                 loc_0_228A:
                                                                                                                                                                                               ; CODE XREF: 0000:227E↑j
                                                                                     rra
0000:228B DA 81 22
                                                                                    jp
rra
ld
                                                                                                      c, loc_0_2281
0000:228E 1F
0000:228F 3E 01
0000:2291 DA 95 22
                                                                                                      c, loc_0_2295
                                                                                     jр
0000:2294 AF
0000:2295
```

```
loc_0_2295:
                                                                                                                                                                                            ; CODE XREF: 0000:2291<sup>†</sup>j
0000:2295 32 22 62
0000:2298 C9
                                                                                   ld
                                                                                                    (unk 0 6222), a
                                                                                   ret
0000:2299 E1

0000:229D 3A 18 60

0000:229D E6 3C

0000:229F C0

0000:22A0 34

0000:22A1 C9

0000:22A2*

0000:22A2*

0000:22A2*
                                                                                   pop
ld
                                                                                                    a, (random_no)
3Ch; '<'
                                                                                   and
                                                                                   ret
                                                                                                    nz
(hl)
                                                                                   inc
                                                                                   ret
0000:22A2*
0000:22A2*
0000:22A4 2C
0000:22A5 2C
0000:22A6 2C
0000:22A7 35
0000:22A8 CO
0000:22A8 CO
0000:22AB DD
                                                loc_0_22A2:
                                                                                                                                                                                            ; DATA XREF: sub_0_2207+19 w
                                                                                                    hl
1
1
                                                                                   pop
inc
inc
                                                                                   inc
                                                                                   inc
                                                                                                     (hl)
                                                                                   ret
                                                                                                    nz
                                                                                   ld
                                                                                                     (hl), 2
                                                                                   dec
                                                                                                     (hl)
                                                                                   call
ld
                                                                                                    sub_0_22BD
                                                                                                     a, 6
(hl)
                                                                                                           68h ; 'h
                                                                                   cp
ret
                                                                                   xor
ld
dec
dec
ld
                                                                                                    a
b, 80h ; 'Ç'
                                                                                                     (hl), b
0000:22BA 2D
0000:22BA 2D
0000:22BB 77
0000:22BC C9
0000:22BD
0000:22BD
0000:22BD
                                                                                   dec
ld
                                                                                                     (hl), a
                                                                                   ret
                                                                                   SUBROUTINE
0000:22BD

0000:22BD

0000:22BD

0000:22BD

0000:22BD

0000:22C0

11 4B 69

0000:22C3

0000:22C6

11 47 69

0000:22C9
                                                                                                                                                                                            ; CODE XREF: 0000:2265†p; 0000:22AD†p
                                                sub_0_22BD:
                                                                                                    a, (hl)
3, l
                                                                                   bit
ld
                                                                                                    de, soft_sprite_ram+4Bh
                                                                                                    nz, loc_0_22C9
de, soft_sprite_ram+47h
0000:2209
                                                loc_0_22C9:
                                                                                                                                                                                            ; CODE XREF: sub 0 22BD+61i
0000:22C9
0000:22C9 12
0000:22CA C9
0000:22CA
0000:22CB
0000:22CB
                                                                                   ld
                                                                                                    (de), a
                                                                                   ret
                                                ; End of function sub_0_22BD
                                                                   SUBROUTINE
0000:22CB
0000:22CB
0000:22CB
0000:22CB
0000:22CB 3A 48 63
                                                sub_0_22CB:
                                                                                                                                                                                             ; CODE XREF: sub_0_1F72+1D7^p
                                                                                                    a, (unk_0_6348)
                                                                                   ld
0000:22CE A7
0000:22CF CA E1 22
0000:22D2 3A 80 63
0000:22D5 3D
0000:22D6 EF
                                                                                   and
                                                                                                    a
z, loc_0_22E1
a, (unk_0_6380)
                                                                                   jp
ld
                                                                                   rst
                                                                                                     28h
                                                                                                                                                                                             ; go!
0000:22D6 EF

0000:22D7 F6 22

0000:22D7 F6 22

0000:22DB 03 23

0000:22DD 03 23

0000:22DF 1A 23

0000:22DF 1A 23
                                                                                    .dw loc_0_22F6
                                                                                                                                                                                             ; Jump table
                                                                                   .dw loc_0_22F6
.dw loc_0_2303
.dw loc_0_2303
.dw loc_0_231A
0000:22E1
0000:22E1
0000:22E1 3A 29 62
0000:22E4 47
0000:22E5 05
0000:22E6 3E 01
0000:22E8 CA F9 22
                                                 loc_0_22E1:
                                                                                                                                                                                             ; CODE XREF: sub_0_22CB+4^jj
                                                                                   ld
                                                                                                    a, (level)
                                                                                   ld
dec
                                                                                                    b, a
                                                                                                    b
                                                                                   ld
                                                                                                    a, 1
z, loc_0_22F9
                                                                                   jp
dec
0000:22E8 CA F9 22

0000:22EB 05

0000:22EC 3E B1

0000:22EF CA F9 22

0000:22F1 3E E9

0000:22F3 C3 F9 22

0000:22F6

0000:22F6
                                                                                                    b
a, 0B1h; '"'
z, loc_0_22F9
                                                                                   jp
ld
                                                                                                           0E9h
                                                                                                     loc_0_22F9
                                                                                                                                                                                             ; DATA XREF: sub_0_22CB+C1o
0000:22F6
                                                loc_0_22F6:
0000:22F6 3A 18 60
0000:22F6
                                                                                                                                                                                             ; sub_0_22CB+E<sup>↑</sup>o
                                                                                   ld
                                                                                                    a, (random_no)
 0000:22F9
0000:22F9
                                                                                                                                                                                            ; CODE XREF: sub_0_22CB+1D\uparrow j; sub_0_22CB+23\uparrow j ...
                                                 loc 0 22F9:
0000:22F9
0000:22F9 DD 77 11
0000:22F9
0000:22FC E6 01
                                                                                                     (ix+11h), a
                                                                                   ld
L &0 01

UU00:22FE 3D

0000:22FF DD 77 10

0000:2302 C9

0000:2302

0000:2200
                                                                                   and
                                                                                   dec
                                                                                   ld
                                                                                                     (ix+10h), a
                                                                                   ret
                                                 ; End of function sub 0 22CB
0000:2302
0000:2302
0000:2303
0000:2303
                                                                                                                                                                                            ; DATA XREF: sub_0_22CB+10\u00f10 o ; sub_0_22CB+12\u00f10 o
0000:2303
0000:2303
0000:2306
0000:2306
0000:2306
0000:2300
0000:2300
0000:2307
0000:2310
0000:2311
0000:2314
0000:2315
0000:2316
 0000:2303
                                                loc 0 2303:
                                                                                   ld
ld
ld
                                                                                                    a, (random_no)
(ix+11h), a
                                                                                                     a, (mario_x)
                                                                                                     (ix+3)
                                                                                   cp
ld
                                                                                   jp
dec
                                                                                                    nc, loc 0 2316
                                                                                   dec
                                                                                                                                                                                            ; CODE XREF: 0000:2311<sup>†</sup> j
                                                loc 0 2316:
 0000:2316
0000:2316 DD 77 10
0000:2319 C9
0000:231A
                                                                                   14
                                                                                                    (ix+10h), a
0000:2312
0000:231A
                                                loc_0_231A:
                                                                                                                                                                                             ; DATA XREF: sub_0_22CB+14\uparrow o
```

```
a, (mario_x)
(ix+3)
c, 0FFh
c, loc_0_2326
0000:231A
                  3A 03 62
                                                                        ld
0000:231D DD 96 03
                                                                        sub
0000:2320 0E FF
0000:2322 DA 26 23
0000:2325 0C
                                                                        ld
                                                                        jp
inc
0000:2325 0C
0000:2326
0000:2326 07
0000:2327 CB 11
                                         loc_0_2326:
                                                                                                                                                                 ; CODE XREF: 0000:23221j
                                                                        rlca
                                                                        rl
0000:2329 07
0000:232A CB 11
0000:232C DD 71 10
0000:232F DD 77 11
                                                                        rlca
                                                                        rl
ld
                                                                                       (ix+10h), c
(ix+11h), a
                                                                        ld
0000:2332 C9
0000:2333
0000:2333
0000:2333
                                                                        ret
                                                                        SUBROUTINE
0000:2333
0000:2333
0000:2333 3E 0F
0000:2333 3E 0F
0000:2335 A4
0000:2335 A5
0000:2337 CA 42 23
0000:233A FE 0F
                                                                                                                                                                  ; CODE XREF: sub_0_1AC3+221^p; sub_0_1F72+95^p ...
                                          sub_0_2333:
                                                                        1d
                                                                                      a, OFh
                                                                                      h
b
                                                                                       z, loc 0 2342
                                                                        qŗ
                                                                       cp
ret
                                                                                      0Fh
0000:233A FE 0F
0000:233C D8
0000:233D 06 FF
0000:233F C3 47 23
0000:2342
0000:2342
0000:2342 FE 01
                                                                                       b, OFFh
                                                                                       loc 0 2347
                                                                        jр
                                          loc_0_2342:
                                                                                                                                                                   ; CODE XREF: sub_0_2333+41j
                                                                        ср
0000:2344 D0
0000:2345 06 01
0000:2347
0000:2347
                                                                       ret
ld
                                                                                      nc
b, 1
                                                                                                                                                                  ; CODE XREF: sub_0_2333+C^jj
                                          loc 0 2347:
                                                                                      a, 0F0h ; '-'
0000:2347 3E F0
0000:2349 BD
0000:234A CA 60 23
0000:234D 3E 4C
                                                                        ld
                                                                        ср
                                                                                       z, loc_0_2360
                                                                        jp
ld
                                                                                            4Ch ; 'L'
0000:234F BD
0000:2350 CA 66 23
0000:2353 7D
0000:2354 CB 6F
0000:2356 CA 5C 23
0000:2359
                                                                        cp
jp
ld
                                                                                            loc_0_2366
                                                                                      a, 1
5, a
                                                                        bit
                                                                                       z, loc_0_235C
                                                                        jp
 0000:2359
                                          loc 0 2359:
                                                                                                                                                                  ; CODE XREF: sub 0 2333+2F-j
0000:2359 90
                                                                        sub
                                                                                      h
0000:2359 90
0000:235A
0000:235A 6F
0000:235B C9
0000:235C
0000:235C
                                          loc_0_235A:
                                                                                                                                                                   ; CODE XREF: sub_0_2333+2A j
                                                                        ld
                                                                                      1, a
                                                                                                                                                                  ; CODE XREF: sub_0_2333+23<sup>†</sup>j; sub_0_2333+38<sup>†</sup>j
                                          loc 0 235C:
0000:2350
0000:235C
0000:235C
0000:235C
0000:235D C3 5A 23
                                                                                       a, b
loc_0_235A
                                                                        add
0000:235D C3 5A 23
0000:2360
0000:2360
0000:2360 CB 7C
0000:2365 C9
0000:2366
0000:2366
0000:2366
0000:2366
0000:2367 FE 98
0000:2368
0000:236B C3 5C 23
0000:236B
0000:236B
0000:236B
0000:236B
0000:236B
0000:236B
0000:236B
                                                                        jр
                                          loc_0_2360:
                                                                                                                                                                   ; CODE XREF: sub_0_2333+17†j
                                                                        bit
                                                                                        7, h
                                                                                      nz, loc_0_2359
                                                                        jp
ret
                                          loc_0_2366:
                                                                                                                                                                   ; CODE XREF: sub_0_2333+1D j
                                                                                       a, h
98h; 'ÿ'
                                                                        ld
                                                                        ср
                                                                       ret
ld
                                                                                           1
                                                                                       loc_0_235C
                                                                        jр
                                          ; End of function sub_0
                                                                     SUBROUTINE
0000:236E
0000:236E
0000:236E 21 00 63
                                          sub_0_236E:
                                                                                                                                                                  ; CODE XREF: sub_0_1AC3+50^{\uparrow}p; sub_0_216D^{\uparrow}p ...
                                                                       ld
0000:236E
0000:2371
0000:2371 ED B1
0000:2373 C2 9A 23
0000:2376 E5
0000:2377 C5
0000:2378 01 14 00
0000:236E
                                                                                      hl. unk 0 6300
                                          loc_0_2371:
                                                                                                                                                                  ; CODE XREF: sub_0_236E+1E|j
                                                                        cpir
                                                                       jp
push
push
                                                                                      nz, loc_0_239A
                                                                                      hl
bc
                                                                                               14h
                                                                        ld
                                                                                      bc, 141 hl, bc
                                                                        add
0000:237E
0000:237C
0000:237D
0000:237E
                                                                        inc
ld
ld
                  0C
5F
                                                                                      e, a
a, d
                   7A
                                                                        cp
jp
add
0000:237F BE
                                                                                       (hl
0000:237F BE
0000:2380 CA 8F 23
0000:2383 09
0000:2384 BE
                                                                                      z, loc_0_238F
hl, bc
(hl)
                                                                       cp
jp
ld
ld
                                                                                      z, loc_0_2395
d, a
0000:2385 CA 95 23
0000:2388 57
0000:2389 78
                                                                                     a, a
a, e
bc
0000:2389 7B

0000:238B E1

0000:238C C3 71 23

0000:238F

0000:238F

0000:238F

0000:238F 09

0000:2390 3E 01

0000:2392 C3 98 23

0000:2395
                                                                       pop
pop
jp
                                                                                       h1
                                                                                       loc_0_2371
                                          loc_0_238F:
                                                                                                                                                                   ; CODE XREF: sub_0_236E+12<sup>†</sup>j
                                                                        add
                                                                                      hl, bc
                                                                        ld
                                                                                       a, 1
loc_0_2398
                                                                        jр
                                          loc_0_2395:
                                                                                                                                                                  ; CODE XREF: sub 0 236E+17 † †
 0000:2395
 0000:2395 AF
0000:2396
0000:2398
                  ED 42
                                                                                      hl, bc
0000:2398
                                         loc 0 2398:
                                                                                                                                                                  ; CODE XREF: sub 0 236E+241 j
0000:2398 C1
                                                                       pop
                                                                                      bc
```

; CODE XREF: sub\_0\_1AC3+23<sup>p</sup>; ; sub\_0\_1AC3+102<sup>p</sup> ...

0000:241F 0000:241F 0000:241F 11 00 01

0000:241F 11 01 0000:241F 0000:2422 3A 03 62 0000:2425 FE 16 0000:2427 D8 0000:2428 15 0000:2429 1C

0000:242D 1D 0000:242E 3A 27 62 0000:2431 0F

0000:2432 D0 0000:2433 3A 05 62

0000:2420 15 0000:2429 1C 0000:242A FE EA 0000:242C D0

sub\_0\_241F:

ld ld cp ret

inc

ср ret

ld

rrca

ret ld

..., 100h a, (mario\_x) 16h

e OEAh ; 'Û'

a, (level\_type)

a, (mario\_y)

d

nc

```
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```
0000:2436 FE 58
                                                                                               58h ; 'X'
0000:2438 D0
0000:2439 3A 03 62
0000:243C FE 6C
0000:243E D0
                                                                                               nc
a, (mario_x)
6Ch; 'l'
                                                                               ret
                                                                               ld
                                                                               cp
ret
0000:243E D0
0000:243F 14
0000:2440 C9
0000:2440
0000:2440
                                                                               inc
                                                                                               d
                                                                               ret
                                             ; End of function sub_0_241F
0000:2441
0000:2441
0000:2441
0000:2441
                                                                          SUBROUTINE
                                                                                                                                                                                 ; CODE XREF: 0000:0D62<sup>p</sup>; anti-tamper check?
0000:2441
0000:2441 21 0C 3F
0000:2444 3E 5E
0000:2446 06 06
                                             sub_0_2441:
                                                                              1d
                                                                                              hl, byte_0_3F09+3
                                                                               ld
                                                                                              a, 5Eh;
b, 6
                                                                              ld
0000:2448
0000:2448
0000:2448
86
                                              loc_0_2448:
                                                                                                                                                                                  ; CODE XREF: sub_0_2441+9|j
                                                                                              a, (hl)
                                                                               add
0000:2448 86

0000:2449 23

0000:244A 10 FC

0000:244C FD 21 10 63

0000:2450 A7

0000:2451 CA 56 24

0000:2454 FD 23

0000:2456
                                                                               inc
                                                                               djnz
                                                                                               loc_0_2448
                                                                              ld
and
                                                                                               iy, unk_0_6310
                                                                                               z, loc_0_2456
                                                                               jp
inc
0000:2456
0000:2456 3A 27 62
0000:2459 3D
0000:245A 21 E4 3A
0000:245D CA 71 24
                                             loc 0 2456:
                                                                                                                                                                                ; CODE XREF: sub 0 2441+10<sup>†</sup> †
                                                                              ld
                                                                                               a, (level_type)
                                                                               dec
ld
                                                                                               hl, draw_data_girder
z, loc_0_2471
                                                                               jp
dec
0000:245D CA 71 24

0000:2461 3D

0000:2461 21 5D 3B

0000:2464 CA 71 24

0000:2467 3D

0000:2468 CA 71 24

0000:2468 CA 71 24

0000:2468 21 8B 3C
                                                                               ld
                                                                                               hl, draw_data_cement
z, loc_0_2471
                                                                               jp
dec
                                                                                              hl, draw_data_elevator
z, loc_0_2471
hl, draw_data_rivets
                                                                               ld
                                                                               jp
1d
0000:240E 21 88 3C

0000:2471

0000:2471 DD 21 00 63

0000:2471

0000:2475 11 05 00
                                                                                                                                                                                 ; CODE XREF: sub_0_2441+1C\uparrow j ; sub_0_2441+23\uparrow j ...
                                             loc_0_2471:
                                                                                              ix, unk_0_6300 de, 5
                                                                               ld
                                                                              ld
                                                                                                                                                                                 ; CODE XREF: sub_0_2441+44|j; sub_0_2441+5A|j ...
                                             loc_0_2478:
0000:2478 7E
0000:2478
                                                                               14
                                                                                               a, (hl)
0000:2478

0000:2479 A7

0000:247A CA 88 24

0000:247D 3D

0000:247E CA 9E 24

0000:2481 FE A9

0000:2483 C8
                                                                                               a
z, loc_0_2488
                                                                               jp
dec
                                                                                               z, loc_0_249E
                                                                               jp
                                                                               ср
                                                                               ret
                                                                                               hl, de
0000:2484 19
0000:2485 C3 78 24
0000:2488
0000:2488
                                                                               add
                                                                               jp
                                                                                               loc_0_2478
0000:2488
0000:2488 23
0000:2489 7E
0000:248A DD 77 00
                                             loc_0_2488:
                                                                                                                                                                                 ; CODE XREF: sub_0_2441+39 j
                                                                                              hl
a, (hl)
(ix+0), a
                                                                               1d
0000:248A DD 77 00
0000:248D 23
0000:248E 7E
0000:248F DD 77 15
                                                                                               hl
                                                                                               a, (hl)
(ix+15h), a
                                                                               ld
ld
0000:2492 23
0000:2493 23
0000:2494 7E
0000:2495 DD 77 2A
0000:2498 DD 23
                                                                               inc
                                                                                               hl
                                                                                               hl
                                                                               ld
ld
                                                                                                     (hl)
                                                                                               a, (hl)
(ix+2Ah), a
                                                                               inc
                                                                                               ix
0000:249A 23
0000:249B C3 78 24
0000:249E
                                                                               inc
                                                                                               h1
                                                                                               loc_0_2478
                                                                               jр
0000:249E
0000:249E
0000:249E
23
0000:249F 7E
                                              loc_0_249E:
                                                                                                                                                                                ; CODE XREF: sub_0_2441+3D|j
                                                                                              hl
a, (hl)
(iy+0), a
hl
                                                                               ld
0000:249F 7E
0000:24A0 FD 77 00
0000:24A3 23
0000:24A4 7E
0000:24A5 FD 77 15
                                                                              ld
inc
ld
                                                                                               a, (hl)
(iy+15h), a
                                                                               1d
0000:24A8 23
0000:24A9 23
0000:24AA 7E
                                                                               inc
inc
                                                                                               h1
                                                                                              hi
hl
a, (hl)
                                                                                               a, (hl)
(iy+2Ah), a
UUUU:24AA 7E
0000:24AB FD 77 2A
0000:24AE FD 23
0000:24BD 23
0000:24B1 C3 78 24
0000:24B1
                                                                               ld
                                                                               inc
inc
                                             jp loc_0_2478; End of function sub_0_2441
0000:24B1
0000:24B4
0000:24B4
                                                                  SUBROUTINE
0000:24B4
0000:24B4
0000:24B4
0000:24B4 DD 7E 05
                                                                                                                                                                                 ; CODE XREF: sub_0_1F72+A2\p; sub_0_1F72+F6\p ...
                                             sub_0_24B4:
0000:24B4
0000:24B7 FE E8
0000:24B9 D8
0000:24BA DD 7E 03
                                                                                               a, (ix+5)
0E8h; 'b'
                                                                               1d
                                                                               ср
                                                                               ret
                                                                                               a, (ix+3)
2Ah; '*'
0000:24BA DD 7E 03
0000:24BF PD 2A
0000:24CD FE 20
0000:24C2 D8
0000:24C2 D8
0000:24C3 DD 7E 15
0000:24C6 A7
0000:24C7 CA D0 24
0000:24CC 32 B9 62
0000:24CF AF
0000:24CD AF
                                                                               ld
                                                                                               nc
20h ; ' '
                                                                               ср
                                                                               ret
                                                                              ld
and
                                                                                               a, (ix+15h)
                                                                                               z, loc_0_24D0
                                                                               jp
ld
                                                                               ld
                                                                                               (unk_0_62B9), a
                                                                               xor
0000:24D0
0000:24D0
0000:24D0 DD 77 00
0000:24D3 DD 77 03
0000:24D6 21 82 60
0000:24D9 36 03
                                             loc_0_24D0:
                                                                                                                                                                               ; CODE XREF: sub_0_24B4+131j
                                                                                               (ix+0), a
(ix+3), a
                                                                               ld
                                                                                               hl, digital_snd_tmrs+2 (hl), 3
                                                                               1d
```

```
0000:24DB E1
0000:24DB E1
0000:24DF A7
0000:24DF A7
0000:24ED C2 BA 21
0000:24E3 3C
0000:24E4 32 48 63
0000:24E7 C3 BA 21
0000:24E7
0000:24E7
                                                                                    a, (unk_0_6348)
                                                                      ld
                                                                      and
jp
inc
                                                                                    nz, loc_0_21BA
                                                                                     (unk 0 6348), a
                                                                     ld
                                        jp loc_
; End of function sub_0_24B4
                                                                                     loc_0_21BA
0000:24EA
0000:24EA
                                                                   SUBROUTINE
0000:24EA
0000:24EA
0000:24EA 3E 02
0000:24EA 3E 02
0000:24EC F7
0000:24ED CD 23 25
                                        sub_0_24EA:
                                                                                                                                                             ; CODE XREF: 0000:1992 p
                                                                     ld
                                                                                    a, 2
30h
                                                                     rst
call
                                                                                                                                                             ; return if level bit not set
                                                                                    sub_0_2523
0000:24F0 CD 91 25
0000:24F3 DD 21 A0 65
0000:24F7 06 06
0000:24F9 21 B8 69
                                                                     call
ld
ld
                                                                                    sub_0_2591
ix, unk_0_65A0
b, 6
                                                                                                                                                             ; 6 sprites to update
                                                                                    hl, soft_sprite_ram+0B8h
                                                                     ld
0000:24FC
0000:24FC
0000:24FC DD 7E 00
0000:24FF A7
                                        loc_0_24FC:
                                                                                                                                                             ; CODE XREF: sub_0_24EA+2F|j
                                                                                   a, (ix+0)
                                                                     ld
                                                                      and
U000:24FF A7

0000:2500 CA 1C 25

0000:2503 DD 7E 03

0000:2506 77

0000:2507 2C
                                                                                    z, loc_0_251C
a, (ix+3)
(hl), a
                                                                      jp
ld
                                                                                                                                                             ; sprite X
                                                                      ld
inc
0000:2507 2C
0000:2508 DD 7E 07
0000:250B 77
0000:250C 2C
                                                                                    a, (ix+7)
(h1), a
                                                                      ld
ld
                                                                                                                                                             ; sprite tile #
                                                                      inc
                                                                                    l
a, (ix+8)
(hl), a
0000:250D DD 7E 08
0000:2510 77
0000:2511 2C
0000:2512 DD 7E 05
                                                                      1d
                                                                                                                                                             ; sprite v flip & palette
                                                                      ld
                                                                                    l
a, (ix+5)
                                                                      ld
                                                                                                                                                             ; sprite Y
0000:2512 BB
0000:2515 77
0000:2516 2C
0000:2517
                                                                                    (hl), a
                                                                      ld
0000:2517
0000:2517 DD 19
0000:2519 10 E1
0000:251B C9
                                                                                                                                                             ; CODE XREF: sub 0 24EA+36-i
                                        loc 0 2517:
                                                                                   ix, de
loc_0_24FC
                                                                      add
                                                                      djnz
                                                                      ret
0000:251B C3
0000:251C
0000:251C
                                                                                                                                                             ; CODE XREF: sub_0_24EA+16 j
                                        loc_0_251C:
0000:251C 7D
                                                                     ld
                                                                                    a, 1
0000:251C 7D
0000:251D C6 04
0000:251F 6F
0000:2520 C3 17 25
0000:2520
0000:2520
0000:2523
0000:2523
                                                                                    a, 4
1, a
loc_0_2517
                                                                      add
                                                                      1d
                                                                      jр
                                        ; End of function sub 0 24EA
                                        ; SUBROUTINE SUBROUTINE
0000:2523
0000:2523
0000:2523
0000:2523
0000:2523 21 9B 63
                                        sub_0_2523:
                                                                                                                                                             ; CODE XREF: sub_0_24EA+31p
                                                                      ld
                                                                                   hl, unk_0_639B
0000:2523 21 9B 63

0000:2526 7E

0000:2527 A7

0000:2528 C2 8F 25

0000:252B 3A 9A 63

0000:252E A7

0000:252F C8

0000:2530 06 06

0000:2532 11 10 00

0000:2535 DD 21 A0 65

0000:2539

0000:2539 DD CB 00 46
                                                                     ld
and
jp
ld
                                                                                    a, (hl)
                                                                                    nz, loc_0_258F
                                                                                    a, (unk_0_639A)
a
                                                                      and
                                                                                   z
b, 6
de, 10h
ix, unk_0_65A0
                                                                      ret
ld
                                                                      ld
                                                                      ld
                                        loc_0_2539:
                                                                                                                                                            ; CODE XREF: sub_0_2523+1F|j
0000:2539 DD CB 00 46
                                                                     bit
                                                                                   0, (ix+0)
0000:253D CA 45 25
0000:2540 DD 19
0000:2542 10 F5
                                                                                   z, loc_0_2545
ix, de
loc_0_2539
                                                                      jp
add
                                                                     djnz
0000:2544 C9
0000:2545
0000:2545
0000:2545
                                                                                                                                                             ; CODE XREF: sub_0_2523+1A j
                                       loc 0 2545:
0000:2545

0000:2548 CD 57 00

0000:2548 FE 60

0000:2544 DD 36 05 7C

0000:254E DA 58 25

0000:2551 3A A3 62

0000:2554 3D

0000:2555 C2 6E 25
                                                                                   rand
60h; '`'
(ix+5), 7Ch;
c, loc_0_2558
a, (unk_0_62A3)
                                                                      call
                                                                      cp
ld
                                                                                                          7 1 1
                                                                     jp
ld
dec
                                                                                    nz, loc_0_256E
                                                                      qŗ
0000:2558
0000:2558 DD 36 05 CC 0000:2558 DD 36 62 0000:255F 07
                                                                                                                                                             ; CODE XREF: sub_0_2523+2B<sup>†</sup>j
                                                                                    (ix+5), OCCh; | | a, (unk_0_62A6)
                                                                      ld
                                                                      ld
                                                                      rlca
0000:2550 07 0000:2560 10c_0_2560: 0000:2560 DD 36 03 07 0000:2564 D2 76 25 0000:2564 D2 76 25 0000:2568 C3 76 25 0000:256E C3 76 25 0000:256E C3 76 25 0000:256E
                                                                                                                                                             ; CODE XREF: sub_0_2523+50|j
                                                                      ld
                                                                                     (ix+3), 7
                                                                                    nc, loc_0_2576
(ix+3), 0F8h;
loc_0_2576
                                                                      jp
ld
                                                                      jр
0000:256E
0000:256E
0000:256E CD 57 00
0000:2571 FE 68
0000:2573 C3 60 25
0000:2576
0000:2576
                                        loc_0_256E:
                                                                                                                                                             ; CODE XREF: sub_0_2523+32 j
                                                                      call
                                                                                    rand
                                                                     cp
jp
                                                                                     68h
                                                                                    loc_0_2560
0000:2576
0000:2576 DD 36 00 01
0000:2576
                                                                                                                                                              ; CODE XREF: sub_0_2523+41 j
                                       loc_0_2576:
                                                                                                                                                             ; sub_0_2523+481j
                                                                                    (ix+0), 1
(ix+7), 4Bh; 'K'
(ix+9), 8
(ix+0Ah), 3
a, 7Ch; '|'
 0000:257A DD 36 07 4B
                                                                      ld
                                                                                                                                                             ; cement pie sprite tile
0000:257E DD 36 09 08
0000:2582 DD 36 0A 03
0000:2586 3E 7C
0000:2588 32 9B 63
                                                                      ld
                                                                     ld
ld
                                                                                    (unk_0_639B), a
                                                                      ld
 0000:258B AF
0000:258C 32 9A 63
0000:258F
                                                                                    (unk_0_639A), a
                                      loc_0_258F:
0000:258F
                                                                                                                                                             ; CODE XREF: sub 0 2523+514
0000:258F 35
                                                                    dec
                                                                                   (hl)
```

```
0000:2590 C9
                                          ; End of function sub_0_2523
0000:2590
0000:2590
                                                                      SUBROUTINE
; CODE XREF: sub_0_24EA+61p
                                                                          ld
                                                                                         ix, unk_0_65A0
                                                                                        de, 10h
b, 6
                                                                          ld
                                                                          ld
                                                                                                                                                                      ; CODE XREF: sub_0_2591+2C|j
0000:259A DD CB 00 46
0000:259E CA BB 25
0000:25A1 DD 7E 03
0000:25A4 67
                                                                                        0, (ix+0)
z, loc_0_25BB
a, (ix+3)
h, a
a, 7
                                                                          bit
                                                                          jp
ld
0000:25A4 67
0000:25A5 C6 07
0000:25A7 FE 0E
0000:25A9 DA D6 25
0000:25AC DD 7E 05
0000:25AF FE 7C
0000:25B1 CA C0
0000:25B1 A A 6 63
0000:25B7 84
                                                                          ld
                                                                         add
cp
                                                                                         a,
0Eh
                                                                                        c, loc_0_25D6
a, (ix+5)
7Ch; '|'
z, loc_0_25C0
                                                                          jp
ld
                                                                          cp
jp
ld
                                                                                         a, (unk 0 63A6)
                                                                          add
                                                                                             h
0000:25B8 DD 77 03
0000:25BB
                                                                                         (ix+3), a
                                                                          ld
                                                                                                                                                                      ; CODE XREF: sub_0_2591+D<sup>†</sup> j ; sub_0_2591+42<sup>†</sup> j ...
0000:25BB
                                          loc 0 25BB:
0000:25BB DD 19
0000:25BB DD 19
0000:25BB
0000:25BD 10 DB
0000:25BF C9
                                                                                         ix, de
loc_0_259A
                                                                          add
                                                                          djnz
                                                                          ret
0000:25BF C9
0000:25C0
0000:25C0
0000:25C0 7C
0000:25C1 FE 80
0000:25C6 3A A5 63
0000:25C6 3A A4 63
0000:25C7 AA A4 63
0000:25CF 84
                                          loc_0_25C0:
                                                                                                                                                                      ; CODE XREF: sub_0_2591+20 j
                                                                                        a, h

80h; 'C'

z, loc_0_25D6

a, (unk_0_63A5)

nc, loc_0_25CF

a, (unk_0_63A4)
                                                                          ld
                                                                          cp
jp
ld
                                                                          jp
ld
                                           loc 0 25CF:
                                                                                                                                                                      ; CODE XREF: sub_0_2591+38 j
0000:25CF 84
0000:25D0 DD 77 03
0000:25D3 C3 BB 25
0000:25D6
                                                                          add
                                                                                         a, h
                                                                                         (ix+3), a
loc_0_25BB
                                                                          ld
                                                                          jр
0000:2506
0000:25D6
0000:25D6
0000:25D6 21 B8 69
0000:25D6
                                           loc_0_25D6:
                                                                                                                                                                      ; CODE XREF: sub_0_2591+18<sup>†</sup>j; sub_0_2591+32<sup>†</sup>j
                                                                          1d
                                                                                         hl, soft_sprite_ram+0B8h
0000:25D0
0000:25D9 3E 06
0000:25DB 90
0000:25DC
                                                                                        a, 6
b
                                                                          14
                                                                          sub
                                                                                                                                                                      ; CODE XREF: sub_0_2591+53|j
0000:25DC
                                           loc 0 25DC:
0000:25DC CA E7 25
0000:25DF 2C
0000:25E0 2C
                                                                          jp
inc
inc
                                                                                         z, loc_0_25E7
0000:25E1 2C
0000:25E2 2C
0000:25E3 3D
0000:25E4 C3 DC 25
                                                                         inc
inc
dec
                                                                                         1
                                                                                         loc_0_25DC
                                                                          qŗ
0000:25E7
0000:25E7
0000:25E7
0000:25E7 AF
0000:25E8 DD 77 00
0000:25EB DD 77 03
0000:25EE 77
                                                                                                                                                                      ; CODE XREF: sub_0_2591+4B<sup>†</sup>j
                                           loc_0_25E7:
                                                                          xor
                                                                                         a
(ix+0), a
(ix+3), a
(h1), a
                                                                          ld
                                                                          ld
                                                                          ld
0000:25EE 77
0000:25EF C3 BB 25
                                           jp; End of function
                                                                                         loc 0 25BB
0000:25EF
0000:25EF
0000:25F2
                                                                             sub 0 2591
0000:25F2
0000:25F2
0000:25F2
0000:25F2
                                                                        SUBROUTINE |
                                          sub 0 25F2:
                                                                                                                                                                      ; CODE XREF: 0000:19AATp
0000:25F2 3E 02

0000:25F4 F7

0000:25F5 CD 02 26

0000:25F8 CD 2F 26

0000:25FB CD 79 26

0000:25FE CD D3 2A

0000:2601 99
                                                                          1d
                                                                                              2
                                                                                         a,
30h
                                                                         rst
call
                                                                                                                                                                      ; return if level bit not set
                                                                                         sub_0_2602
                                                                          call
                                                                                         sub_0_262F
sub_0_2679
                                                                          call
call
                                                                          ret
                                           ; End of function sub_0_25F2
0000:2601
0000:2601
0000:2602
                                                                        SUBROUTINE
 0000:2602
0000:2602
0000:2602
0000:2602
0000:2602 3A 1A 60
                                                                                                                                                                      ; CODE XREF: 0000:16D5\p; sub_0_25F2+3\p
                                           sub_0_2602:
0000:2602
0000:2605 OF
0000:2606 DA 16 26
0000:2609 21 A0 62
                                                                          1d
                                                                                         a, (gen_purpose_timer)
                                                                          rrca
                                                                                        c, loc_0_2616
hl, unk_0_62A0
(hl)
nz, loc_0_2616
(hl), 80h; 'C
                                                                          jp
ld
0000:260C 35
0000:260D C2 16 26
0000:2610 36 80
0000:2612 2C
                                                                          dec
                                                                          jp
ld
0000:2612 2C
0000:2613 CD DE 26
0000:2616
0000:2616
0000:2616 21 A1 62
0000:2616
0000:2619 CD E9 26
0000:261C 32 A3 63
0000:261F 3A 1A 60
0000:262E E6 1F
0000:262E E6 1F
                                                                          inc
                                                                                         sub_0_26DE
                                                                          call
                                                                                                                                                                      ; CODE XREF: sub_0_2602+4<sup>†</sup>j; sub_0_2602+B<sup>†</sup>j
                                           loc_0_2616:
                                                                         ld
call
                                                                                        hl, unk_0_62A1
sub_0_26E9
(unk_0_63A3), a
                                                                          1d
                                                                                         a, (gen_purpose_timer)

1Fh
                                                                          ld
                                                                          ср
0000:2626 C0
0000:2627 11 E4 69
0000:262A EB
0000:262B CD A6 26
                                                                          ret
                                                                                         nz
                                                                         ld
ex
call
                                                                                         de, soft_sprite_ram+0E4h de, hl
                                                                                         sub_0_26A6
0000:262E C9
                                                                          ret
0000:262E
                                          ; End of function sub_0_2602
```

```
0000:262E
0000:262F
0000:262F
                                           ; SUBROUTINE SUBROUTINE
                                           sub_0_262F:
                                                                                                                                                                        ; CODE XREF: sub 0 25F2+61p
0000:262F
0000:262F 21 A3 62
0000:2632 3A 05 62
0000:2635 FE C0
                                                                          ld
ld
                                                                                          hl, unk_0_62A3
                                                                                          a, (mario_y)
OCOh; 'L'
                                                                          ср
0000:2635 FE C0
0000:2637 DA 6F 26
0000:263A 3A 1A 60
0000:263D OF
0000:263E DA 4C 26
                                                                                          0C0h ; 'L'
c, loc_0_266F
a, (gen_purpose_timer)
                                                                          jp
ld
rrca
                                                                          jp
dec
                                                                                          c, loc_0_264C
0000:2635 DA 4C 26

0000:2641 2D

0000:2642 35

0000:2643 C2 4C 26

0000:2648 2C

0000:2648 2C

0000:2649 CD DE 26

0000:2640 CD DE 26
                                                                                          (h1)
nz, loc_0_264C
(h1), 0C0h; 'L'
                                                                          jp
ld
                                                                                          sub_0_26DE
                                                                                                                                                                        ; CODE XREF: sub 0 262F+F1i
0000:264C
                                           loc_0_264C:
0000:264C 21 A3 62
0000:264C
0000:264F CD E9 26
                                                                                                                                                                        ; sub_0_262F+14 i ...
                                                                                          hl, unk_0_62A3
sub_0_26E9
(unk_0_63A5), a
                                                                          ld
                                                                          call
ld
0000:2652 32 A5 65
0000:2655 ED 44
0000:2657 32 A4 63
0000:265A 3A 1A 60
0000:265D E6 1F
                                                                          neg
ld
                                                                                          (unk_0_63A4), a
                                                                          1d
                                                                                          a, (gen_purpose_timer)
1Fh
                                                                          and
0000:265D E6 IF
0000:265F C0
0000:2660 2D
0000:2661 11 EC 69
                                                                          ret
                                                                          dec
ld
                                                                                          de, soft_sprite_ram+0ECh
0000:2661 11 EC 69
0000:2664 EB
0000:2665 CD A6 26
0000:2668 E6 7F
0000:266D 77
0000:266E C9
0000:266F
0000:266F
                                                                          ex
call
                                                                                          de.
                                                                                                 h1
                                                                                          de, ni
sub_0_26A6
7Fh; ''
hl, soft_sprite_ram+0EDh
                                                                          and
ld
                                                                                          (hl), a
                                                                          ld
0000:266F
0000:266F CB 7E
0000:266F CB 7E
0000:2671 C2 4C 26
0000:2674 36 FF
0000:2676 C3 4C 26
0000:2676 0000:2676
                                           loc_0_266F:
                                                                                                                                                                        ; CODE XREF: sub_0_262F+8 j
                                                                                         nz, loc_0_264C
(hl), OFFh
                                                                          jp
ld
                                           jp loc_0_264C
; End of function sub_0_262F
0000:2679
0000:2679
0000:2679
0000:2679
                                                                        SUBROUTINE
0000:2679
0000:2679
0000:2679 3A 1A 60
0000:267C 0F
                                           sub_0_2679:
                                                                                                                                                                        ; CODE XREF: sub_0_25F2+9<sup>†</sup>p
                                                                                         a, (gen_purpose_timer)
                                                                          rrca
0000:267C OF
0000:267D DA 8D 26
0000:2680 21 A5 62
0000:2683 35
0000:2684 C2 8D 26
                                                                                         c, loc_0_268D
hl, unk_0_62A5
(hl)
nz, loc_0_268D
                                                                          jp
ld
dec
                                                                          jp
ld
0000:2687 36 FF
0000:2689 2C
0000:268A CD DE 26
0000:268D
                                                                                          (hl), OFFh
                                                                          call
                                                                                          sub_0_26DE
                                                                                                                                                                        ; CODE XREF: sub_0_2679+4<sup>†</sup> j ; sub_0_2679+B<sup>†</sup> j
0000:268D
                                           loc 0 268D:
0000:268D 21 A6 62
0000:268D 0000:269D 0000:2690 CD E9 26
0000:2693 32 A6 63
0000:2696 3A 1A 60
0000:2699 E6 1F
                                                                          ld
                                                                                          hl, unk_0_62A6
                                                                                          sub_0_26E9
(unk_0_63A6),
                                                                          call
ld
ld
                                                                                          a, (gen_purpose_timer)

1Fh
                                                                          and
                                                                          cp
ret
ld
0000:269B FE 02
0000:269B FE 02
0000:269D C0
0000:269E 11 F4 69
0000:26A1 EB
0000:26A5 C9
0000:26A5 C9
                                                                                          nz
                                                                                          de, soft_sprite_ram+0F4h
                                                                          ex
                                                                                          de, hl
                                                                                          sub_0_26A6
                                                                          call
                                           ret; End of function sub_0_2679
0000:26A6
0000:26A6
0000:26A6
                                                                       SUBROUTINE
0000:26A6
0000:26A6
0000:26A6 2C
0000:26A6
                                                                                                                                                                         ; CODE XREF: sub_0_2602+29^p; sub_0_262F+36^p...
                                           sub_0_26A6:
0000:26A7 1A
0000:26A8 17
                                                                                          a, (de)
                                                                          ld
0000:26A8 17
0000:26A9 DA C5 26
0000:26AC 7E
0000:26AD 3C
                                                                          rla
jp
ld
inc
                                                                                          c, loc_0_26C5
                                                                                          a, (hl)
                                                                                          53h ; 'S'
0000:26AE FE 53
0000:26B0 C2 B5 26
0000:26B3 3E 50
                                                                          ср
                                                                                          nz, loc_0_26B5
a, 50h; 'P'
                                                                          jp
ld
0000:26B5
0000:26B5
0000:26B5
77
0000:26B6
                                           loc_0_26B5:
                                                                                                                                                                       ; CODE XREF: sub_0_26A6+A1j
                                                                                         (hl), a
a, 1
a, 4
l, a
a, (hl)
                                                                          ld
                                                                          ld
0000:26B7 C6 04
0000:26B9 6F
0000:26BA 7E
                                                                          add
ld
ld
0000:26BA 7E
0000:26BB 3D
0000:26BE FE CF
0000:26BE C2 C3 26
0000:26C1 3E D2
0000:26C3
0000:26C3
0000:26C4 C9
0000:26C4 C9
                                                                          dec
                                                                          cp
jp
ld
                                                                                          0CFh ; '¤'
                                                                                          nz, loc_0_26C3
a, 0D2h; 'Ê'
                                           loc_0_26C3:
                                                                                                                                                                        ; CODE XREF: sub_0_26A6+18 j
                                                                                          (hl), a
                                                                          ret
0000:26C5
0000:26C5
0000:26C5
                                                                                                                                                                        ; CODE XREF: sub_0_26A6+31j
                                           loc_0_26C5:
                                                                          ld
                                                                                          a, (hl)
0000:26C6 3D
0000:26C7 FE 4F
0000:26C9 C2 CE 26
                                                                                          4Fh ; '0'
                                                                          ср
                                                                                          nz, loc_0_26CE
                                                                          jp
ld
                                                                                          a, 52h;
0000:26CC 3E 52
0000:26CE
```

```
loc_0_26CE:
                                                                                                                                                               ; CODE XREF: sub_0_26A6+23 j
0000:26CE 77
                                                                                     (hl), a
                                                                                    a, 1
a, 4
1, a
a, (h1)
0000:26CE 77
0000:26CF 7D
0000:26D0 C6 04
0000:26D2 6F
                                                                      ld
                                                                      add
ld
0000:26D2 6F
0000:26D3 7E
0000:26D4 3C
0000:26D5 FE D3
0000:26D7 C2 DC 26
0000:26DA 3E D0
0000:26DC
0000:26DC
0000:26DC
0000:26DC
0000:26DC
0000:26DC
                                                                      ld
inc
                                                                                     0D3h ; 'Ë'
                                                                      ср
                                                                                    nz, loc_0_26DC
a, 0D0h; 'ŏ'
                                                                      jp
ld
                                                                                                                                                              ; CODE XREF: sub_0_26A6+31 j
                                         loc_0_26DC:
                                                                      ld
                                                                                     (hl), a
0000:26DD C9
0000:26DD
0000:26DD
0000:26DE
                                         ret; End of function sub_0_26A6
0000:26DE
0000:26DE
0000:26DE
                                                                    SUBROUTINE
0000:26DE
                                        sub 0 26DE:
                                                                                                                                                               ; CODE XREF: sub_0_2602+111p
0000:26DE CB 7E
0000:26DE
0000:26E0 CA E6 26
                                                                                                                                                               ; sub_0_262F+1A p ...
                                                                                     7, (hl)
                                                                                    z, loc_0_26E6 (hl), 2
                                                                      jp
ld
0000:26E3 36 02
0000:26E5 C9
0000:26E6
0000:26E6
0000:26E6
0000:26E6 36 FE
0000:26E8 C9
                                                                                                                                                               ; CODE XREF: sub_0_26DE+21j
                                         loc_0_26E6:
                                                                      ld
                                                                                     (hl), OFEh ; '■'
                                                                      ret
                                         ; End of function sub_0_26DE
0000:26E8
0000:26E9
0000:26E9
0000:26E9
                                                                    SUBROUTINE
0000:26E9
0000:26E9
0000:26E9 3A 1A 60
0000:26E9 60 1
0000:26EE CB 72
0000:26EF CB 72
0000:26F1 3E FF
0000:26F3 C2 F8 26
0000:26F3 C2 F8 26
0000:26F8 3E 01
0000:26F8 0000:26F8 77
                                                                                                                                                               ; CODE XREF: sub_0_2602+17†p ; sub_0_262F+20†p ...
                                         sub_0_26E9:
                                                                      1d
                                                                                     a, (gen_purpose_timer)
1
                                                                      and
ret
                                                                                     z
7, (hl)
                                                                      bit
                                                                      ld
                                                                                    nz, loc_0_26F8
a, 1
                                         loc 0 26F8:
                                                                                                                                                              ; CODE XREF: sub 0 26E9+A1i
0000:26F8
0000:26F9 C9
0000:26F9
0000:26F9
0000:26FA
0000:26FA
                                                                      ld
                                                                                     (hl), a
                                                                      ret
                                         ; End of function sub_0_26E9
                                         ; SUBROUTINE
0000:26FA
0000:26FA
0000:26FA
0000:26FA
0000:26FA 3E 04
                                         sub_0_26FA:
                                                                                                                                                               ; CODE XREF: 0000:19A71p
                                                                                     a, 4
30h
a, (mario_y)
0F0h; '-'
0000:26FA 3E 04

0000:26FC F7

0000:26FD 3A 05 62

0000:2700 FE F0

0000:2702 D2 7F 27

0000:2705 3A 29 62

0000:2708 3D

0000:2707 3A 1A 60

0000:270C C2 1A 27

0000:270F E6 03

0000:2711 FE 01

0000:2711 GA 1E 27

0000:2716 DA 22 27

0000:2719 C9
                                                                      ld
                                                                      rst
ld
cp
                                                                                                                                                               ; return if level bit not set
                                                                                    oron; '-'
nc, mario_dies_on_elevator
a, (level)
a
a, (gen_purpose_timer)
                                                                                                                                                              ; make mario die
                                                                      jp
ld
                                                                      de
                                                                                     nz, loc_0_271A
                                                                      jp
and
                                                                      ср
                                                                      jp
jp
ret
                                                                                     z, loc_0_271E
                                                                                     c, loc_0_2722
0000:2710 DA
0000:2719 C9
0000:271A
0000:271A
0000:271A
0000:271A OF
0000:271B DA 22 27
0000:271E
                                         loc_0_271A:
                                                                                                                                                               ; CODE XREF: sub 0 26FA+12|j
                                                                      rrca
                                                                                     c, loc_0_2722
                                                                      jр
0000:271E
                                         loc_0_271E:
                                                                                                                                                               ; CODE XREF: sub_0_26FA+19 j
0000:271E CD 45 27
0000:271E CD 45 27
                                                                      call
                                                                                     sub_0_2745
                                                                      ret
0000:2722
0000:2722
0000:2722
0000:2722 CD 97 27
                                                                                                                                                               ; CODE XREF: sub_0_26FA+1C<sup>†</sup>j; sub_0_26FA+21<sup>†</sup>j
                                         loc_0_2722:
0000:2722
                                                                      call
                                                                                     sub 0 2797
0000:2725 CD DA 27
0000:2728 06 06
0000:272A 11 10 00
0000:272D 21 58 69
                                                                      call
ld
                                                                                     sub_0_27DA
b, 6
                                                                                                                                                               ; six elevators
0000:272A 11 10 00
0000:272D 21 58 69
0000:2730 DD 21 00 66
0000:2734
0000:2734
                                                                                     de, 10h
hl, soft_sprite_ram+58h
ix, unk_0_6600
                                                                      ld
ld
                                                                      ld
                                         loc_0_2734:
                                                                                                                                                               ; CODE XREF: sub_0_26FA+48|j
0000:2734 DD 7E 03
0000:2737 77
0000:2738 2C
0000:2739 2C
                                                                      1d
                                                                                     a, (ix+3)
(h1), a
                                                                                                                                                               ; store coordinates
                                                                      ld
                                                                      inc
0000:273A 2C
0000:273B DD 7E 05
0000:273E 77
0000:273F 2C
                                                                      inc
                                                                                     1
                                                                      ld
ld
                                                                                     a, (ix+5)
(hl), a
                                                                      inc
0000:273F 2C
0000:2740 DD 19
0000:2742 10 F0
0000:2744 C9
0000:2744
0000:2744
0000:2745
                                                                      add
djnz
                                                                                     ix. de
                                                                                     loc_0_2734
                                                                      ret
                                         ; End of function sub_0_26FA
                                                                  SUBROUTINE
0000:2745
0000:2745
0000:2745
0000:2745
0000:2745
0000:2745 3A 98 63
0000:2748 A7
0000:2749 C8
0000:274A 3A 16 62
                                         sub_0_2745:
                                                                                                                                                               ; CODE XREF: sub_0_26FA+241p
                                                                      ld
                                                                                     a, (mario_on_elevator)
                                                                      and
                                                                                                                                                               ; on elevator?
                                                                      ret
ld
                                                                                                                                                               ; no, return
                                                                                     a, (mario_jumping)
                                                                      and
ret
                                                                                                                                                               ; jumping?
0000:274E C0
                                                                                     nz
```

```
0000:274F 3A 03 62
                                                                                       a, (mario_x)
2Ch;','
                                                                        ld
                                                                        cp
jp
cp
0000:2752 FE 20
0000:2752 FE 2C
0000:2754 DA 66 27
0000:2757 FE 43
0000:2759 DA 6F 27
                                                                                      c, loc_0_2/C_43h; 'C'
c, loc_0_276F
6Ch; '1'
c, loc_0_2766
                                                                                             loc_0_2766
                                                                                                                                                                   ; not not elevator
                                                                                                                                                                   ; on left elevator
0000:275C FE 6C
0000:275E DA 66 27
0000:2761 FE 83
0000:2763 DA 87 27
                                                                        cp
jp
                                                                                                                                                                    ; not on elevator
                                                                                       83h; 'â'
c, loc_0_2787
                                                                                                                                                                    ; on right elevator
                                                                        jр
0000:2766
                                                                                                                                                                   ; CODE XREF: sub_0_2745+F<sup>†</sup>j
; sub_0_2745+19<sup>†</sup>j
; mark off elevator
0000:2766
                                          loc_0_2766:
0000:2766
0000:2766 AF
0000:2766
0000:2767 32 98 63
0000:276A 3C
0000:276B 32 21 62
                                                                        xor
                                                                        ld
inc
                                                                                        (mario_on_elevator), a
                                                                        ld
                                                                                       (unk_0_6221), a
                                                                        ret
0000:276F
0000:276F
0000:276F
                                          loc_0_276F:
                                                                                                                                                                   ; CODE XREF: sub_0_2745+14 j
0000:276F 3A 05 62

0000:2775 FE 71

0000:2774 DA 7F 27

0000:2777 DA 7F 27

0000:2778 32 05 62

0000:2778 32 4F 69

0000:277F C9
                                                                                       a, (mario_y)
71h ; 'q'
c, mario_dies_on_elevator
                                                                        ld
                                                                        cp
jp
                                                                                                                                                                    ; make mario die
                                                                                                                                                                    ; on upwards moving elevator
                                                                        dec
ld
                                                                                        (mario v), a
                                                                        ld
ret
                                                                                        (soft_sprite_ram+4Fh), a
0000:277F
0000:277F
0000:277F
0000:277F
0000:277F AF
0000:277F
                                                                                                                                                                    ; CODE XREF: sub_0_26FA+8<sup>†</sup> j ; sub_0_2745+2F<sup>†</sup> j ...
                                          mario_dies_on_elevator:
                                                                        xor
0000:277F
0000:2780 32 00 62
0000:2783 32 98 63
0000:2786 C9
                                                                        ld
ld
                                                                                        (is_mario_alive), a (mario_on_elevator), a
                                                                        ret
0000:2787
0000:2787
0000:2787
0000:2787
0000:2787 3A 05 62
                                          loc_0_2787:
                                                                                                                                                                    ; CODE XREF: sub_0_2745+1E^j
                                                                        ld
                                                                                             (mario_y)
0000:2787 3A 05 6E 8
0000:278C D2 7F 27
0000:278F 3C
0000:2797 32 05 62
0000:2793 32 4F 69
0000:2796 09
0000:2796
                                                                        cp
jp
inc
                                                                                       0E8h ;
                                                                                       nc, mario_dies_on_elevator
                                                                                                                                                                    ; on downwards moving elevator
                                                                                        (mario y), a
                                                                                       (soft_sprite_ram+4Fh), a
                                                                        ld
                                          ret; End of function sub_0_2745
0000:2797
0000:2797
0000:2797
0000:2797
0000:2797
0000:2797
0000:2797 06 06
0000:2797 06 06
0000:2799 11 10 00
0000:2790 DD 21 00 66
                                                                      SUBROUTINE
                                                                                                                                                                    ; CODE XREF: sub_0_26FA+28\uparrow p ; move elevators to the right side
                                          sub_0_2797:
                                                                                       b, 6
de, 10h
                                                                        ld
                                                                                       ix, unk_0_6600
                                                                        1d
0000:279C DD 21 00 06
0000:27A0
0000:27A0
0000:27A0 DD CB 00 46
                                          loc_0_27A0:
                                                                                                                                                                    ; CODE XREF: sub_0_2797+2D|j
                                                                        bit
                                                                                       0, (ix+0)
0000:27A4 CA C2 27
0000:27A7 DD CB 0D 5E
0000:27AB CA C7 27
0000:27AE DD 7E 05
                                                                        jp
bit
jp
ld
                                                                                       z, loc_0_27C2
3, (ix+0Dh)
z, loc_0_27C7
                                                                                       a, (ix+5)
0000:27B1 3D 77 05
0000:27B2 DD 77 05
0000:27B5 FE 60
0000:27B7 C2 C2 27
0000:27BA DD 36 03 77
0000:27BE DD 36 0D 04
0000:27C2
0000:27C2
0000:27C2
0000:27B1 3D
                                                                        ded
                                                                                       a
(ix+5), a
60h; ''
nz, loc_0_27C2
(ix+3), 77h;
(ix+0Dh), 4
                                                                        ld
cp
                                                                        jp
ld
                                                                                                                                                                    ; CODE XREF: sub_0_2797+D<sup>†</sup> j ; sub_0_2797+20<sup>†</sup> j ...
0000:2702
                                         loc 0 27C2:
0000:27C2 DD 19
0000:27C2 DD 19
0000:27C2
0000:27C4 10 DA
                                                                                       ix, de
loc_0_27A0
                                                                        djnz
0000:27C4 10 1
0000:27C6 C9
0000:27C7
0000:27C7
                                                                                                                                                                    ; CODE XREF: sub_0_2797+14 j
                                         loc 0 27C7:
0000:27C
0000:27C7 DD 7E 05
0000:27CA 3C
0000:27CB DD 77 05
0000:27CE FE F8
                                                                                       a, (ix+5)
                                                                        ld
                                                                        inc
ld
                                                                                        a
(ix+5), a
                                                                                       0F8h; '°' nz, loc_0_27C2
                                                                        cp
jp
ld
0000:27CE FE F8
0000:27D0 C2 C2 27
0000:27D3 DD 36 00 00
0000:27D7 C3 C2 27
                                                                                        loc_0_27C2
                                                                        qŗ
                                          ; End of function sub_0_2797
0000:27D7
                                                                       SUBROUTINE 
 0000:27DA
0000:27DA
0000:27DA
0000:27DA
0000:27DA 21 A7 62
                                                                                                                                                                    ; CODE XREF: sub_0_26FA+2B\p ; move elevators to the left side
                                          sub_0_27DA:
                                                                                       hl, unk_0_62A7
                                                                        ld
0000:27DD 7E
0000:27DE A7
0000:27DF C2 06 28
0000:27E2 06 06
                                                                                       a, (hl)
                                                                        ld
and
                                                                                       nz, loc_0_2806
                                                                        jp
ld
0000:27E4 DD 21 00 66
0000:27E8
0000:27E8
                                                                        ld
                                                                                       ix, unk_0_6600
                                         loc_0_27E8:
                                                                                                                                                                   ; CODE XREF: sub_0_27DA+17|j
0000:27E8 DD CB 00 46
                                                                                       0, (ix+0)
z, loc_0_27F4
ix, de
                                                                        bit
0000:27E8 DD CB 00
0000:27EC CA F4 27
0000:27EF DD 19
0000:27F1 10 F5
0000:27F3 C9
0000:27F4
0000:27F4
                                                                        jp
add
                                                                                       loc_0_27E8
                                                                        djnz
                                                                                                                                                                   ; CODE XREF: sub 0 27DA+12 j
0000:27F4
                                          loc 0 27F4:
0000:27F4 DD 36 00 01
0000:27F8 DD 36 03 37
0000:27FC DD 36 05 F8
0000:2800 DD 36 0D 08
                                                                                       (ix+0), 1
(ix+3), 37h; '7'
(ix+5), 0F8h; '°'
                                                                        ld
                                                                        ld
ld
                                                                                        (ix+0Dh), 8
(h1), 34h; '4'
                                                                        ld
0000:2804
0000:2806
0000:2806
                                                                        ld
                                                                                                                                                                    ; CODE XREF: sub_0_27DA+5<sup>†</sup>j
                                          loc_0_2806:
0000:2806 35
                                                                                       (h1)
0000:2807 C9
```

call

ld ld ld

ld call

ret ; End of function sub\_0\_286F

0000:28AF 0000:28AF sub\_0\_2913 b, 1 a, b (unk\_0\_63B9), a

sub\_0\_2913

e, 0 ix, unk\_0\_66A0

; fireball character data

```
0000:28B0
 0000:28B0
0000:28B0
0000:28B0 E1
0000:28B0
                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_286F+9\uparrow o; sub_0_3E88+9 \mid o
                                                                    12_check_hammer_hit:
0000:28B0 06 05 0000:28B3 78 0000:28B4 32 B9 63 0000:28BA DD 21 00 64 0000:28C3 78 0000:28C3 78 0000:28C3 78 0000:28C3 78 0000:28C3 DD 21 A0 65 0000:28C9 DD 21 A0 65 0000:28C9 DD 21 A9 65 00000:28C9 DD 21 A9 65 0000:28C9 DD 21 A9 65 00000:28C9 DD 21 A9 65 0000:28C9 DD 21 A9 65 0000 D
                                                                                                                         pop
ld
                                                                                                                                                hi
b, 5
a, b
(unk_0_63B9), a
de, 20h; ''
ix, unk_0_6400
                                                                                                                         ld
ld
                                                                                                                         ld
                                                                                                                                                                                                                                                                             ; fireball character data
                                                                                                                         ld
                                                                                                                        call
ld
ld
                                                                                                                                                  sub_0_2913
                                                                                                                                                 b, 6
a, b
                                                                                                                        ld
ld
ld
                                                                                                                                                  (unk_0_63B9), a
                                                                                                                                                 e, 10h
ix, unk_0_65A0
sub_0_2913
                                                                                                                         call
 0000:28CD CD 13 29

0000:28D0 06 01

0000:28D2 78

0000:28D3 32 B9 63

0000:28D6 IE 00

0000:28D8 DD 21 A0 66

0000:28DC CD 13 29

0000:28DP C9
                                                                                                                        ld
ld
ld
                                                                                                                                                 b, 1
a, b
                                                                                                                                                  (unk_0_63B9), a
                                                                                                                         ld
                                                                                                                                                  e, 0
ix, unk_0_66A0
                                                                                                                         ld
                                                                                                                         call
                                                                                                                                                 sub_0_2913
                                                                                                                        ret
 0000:28E0
 0000:28E0
0000:28E0
0000:28E0
0000:28E0 E1
0000:28E1 06 05
0000:28E3 78
0000:28E4 32 89 63
                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_286F+B\uparrow o; sub_0_3E88+B\uparrow o
                                                                     13_check_hammer_hit:
                                                                                                                        pop
ld
ld
ld
                                                                                                                                                 h1
                                                                                                                                                  a, b
(unk_0_63B9), a
                                                                                                                        ld
ld
call
ld
ld
ld
 0000:28E7 11 20 00
0000:28EA DD 21 00 64
0000:28EE CD 13 29
0000:28F1 06 0A
                                                                                                                                                 de, 20h; ix, unk_0_6400 sub_0_2913
                                                                                                                                                                                                                                                                               ; fireball character data
                                                                                                                                                 b, 0Ah
a, b
(unk_0_63B9), a
0000:28F1 06 0A

0000:28F3 78

0000:28F4 32 B9 63

0000:28F7 1E 10

0000:28F9 DD 21 00 65

0000:28FD CD 13 29

0000:2901

0000:2901

0000:2901
                                                                                                                                                  e, 10h
ix, unk_0_6500
                                                                                                                                                                                                                                                                               ; check if hammer hits a spring
                                                                                                                         ld
                                                                                                                        call
ret
                                                                                                                                                 sub_0_2913
 0000:2901
0000:2901 E1
0000:2901
0000:2902 06 07
                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_286F+D\uparrow o; sub_0_3E88+D \dotplus o
                                                                     14_check_hammer_hit:
                                                                                                                         qoq
                                                                                                                                                 hl
                                                                                                                                                b, 7
a, b
(unk_0_63B9), a
                                                                                                                        ld
ld
ld
 0000:2902 06 07

0000:2904 78

0000:2905 32 B9 63

0000:2908 11 20 00

0000:290B DD 21 00 64

0000:290F CD 13 29

0000:2912 C9
                                                                                                                                                  de, 20h; ''
ix, unk_0_6400
                                                                                                                         ld
                                                                                                                        ld
call
                                                                                                                                                                                                                                                                               ; fireball character data
                                                                                                                                                  sub_0_2913
                                                                                                                        ret
 0000:2913
 0000:2913
0000:2913
0000:2913
                                                                                                                        SUBROUTINE
 0000:2913
0000:2913 DD E5
0000:2913
0000:2915
                                                                      sub_0_2913:
                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_286F+1F\uparrowp ; sub_0_286F+2E\uparrowp ...
                                                                                                                       push
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2913+3B|j; check if hammer hits something else
 0000:2915
                                                                     loc_0_2915:
 0000:2915 DD CB 00 46
0000:2919 CA 4C 29
0000:291C 79
0000:291D DD 96 05
0000:2920 D2 25 29
0000:2923 ED 44
                                                                                                                         bit
                                                                                                                                                0, (ix+0)
z, loc_0_294C
                                                                                                                         jp
ld
                                                                                                                                                 a, c
(ix+5)
                                                                                                                         sub
                                                                                                                                                 nc, loc_0_2925
                                                                                                                         jр
                                                                                                                         neg
 0000:2925
 0000:2925
0000:2925
0000:2925 3C
0000:2926 95
0000:2927 DA 30 29
0000:292A DD 96 0A
0000:292D D2 4C 29
0000:2930
                                                                      loc_0_2925:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2913+Dfj
                                                                                                                         sub
                                                                                                                                                  c, loc_0_2930
                                                                                                                         jp
sub
                                                                                                                                                (ix+0Ah)
nc, loc_0_294C
                                                                                                                         jр
0000:2930

0000:2930 FD 7E 03

0000:2933 FD 96 03

0000:2936 D2 3B 29

0000:2939 ED 44

0000:2938

0000:2938
                                                                      loc_0_2930:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2913+14 j
                                                                                                                                                 a, (iy+3)
(ix+3)
nc, loc_0_293B
                                                                                                                         1d
                                                                                                                         sub
                                                                                                                         jp
neg
                                                                      loc_0_293B:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2913+23 j
 0000:293B 94
                                                                                                                         sub
                                                                                                                                                 h
 0000:293B 94
0000:293C DA 45 29
0000:293F DD 96 09
0000:2942 D2 4C 29
0000:2945
                                                                                                                         jp
sub
                                                                                                                                                        loc_0_2945
                                                                                                                                                  c, loc
(ix+9)
                                                                                                                                                 nc, loc_0_294C
                                                                                                                        jр
 0000:2945
0000:2945 3E 01
0000:2947 DD E1
                                                                      loc_0_2945:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2913+29 j
                                                                                                                                                a, 1
ix
                                                                                                                         ld
                                                                                                                        pop
 0000:2949 33
0000:294A 33
0000:294B C9
0000:294C
                                                                                                                         inc
                                                                                                                                                  sp
sp
                                                                                                                         ret
 0000:294C
0000:294C
0000:294C DD 19
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2913+6<sup>†</sup>j; sub_0_2913+1A<sup>†</sup>j ...
                                                                      loc_0_294C:
0000:294C

0000:294E 10 C5

0000:2950 AF

0000:2951 DD E1

0000:2953 C9

0000:2953

0000:2954

0000:2954
 0000:294C
                                                                                                                         add
                                                                                                                                                  ix, de
                                                                                                                        djnz
xor
                                                                                                                                                 loc_0_2915
                                                                                                                                                  ix
                                                                                                                       pop
ret
                                                                      ; End of function sub_0_2913
                                                                      ; SUBROUTINE
 0000:2954
 0000:2954
0000:2954 3E 0B
0000:2956 F7
0000:2957 CD 74 29
                                                                      sub_0_2954:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub 0 1AC3+171 p
                                                                                                                                                a, 0Bh
30h
                                                                                                                       ld
                                                                                                                        rst
call
                                                                                                                                                                                                                                                                               ; return if level bit not set
                                                                                                                                                 sub_0_2974
                                                                                                                                                 (unk_0_6218), a
 0000:295A 32 18 62
0000:295D 0F
                                                                                                                         1d
                                                                                                                        rrca
```

```
jp
ld
sub
ld
0000:29DC DZ EE 29

0000:29DF 7A

0000:29ED D6 08

0000:29ED 32 05 62

0000:29E5 3E 01

0000:29E8 32 98 63

0000:29EB 33

0000:29EB 33

0000:29EC 03

0000:29EE 0000:29EE
                                                                               a, d
                                                                                (mario_y), a
                                                                  ld
                                                                                                                                                    ; flag on elevator
                                                                               a, 1
b, a
                                                                  ld
                                                                  ld
                                                                                (mario_on_elevator), a
                                                                  inc
                                                                                sp
                                                                  inc
0000:29EE
                                                                                                                                                     ; CODE XREF: sub 0_29AF+2D|j
0000:29EE
                                      loc 0 29EE:
                                                                               a, (mario_y_before_jump)
0Eh
0000:29EE 3A 0C 62
0000:29F1 D6 0E
0000:29F3 BA
                                                                                                                                                     ; collide with side of elevator
                                                                  sub
                                                                 cp
jp
ld
                                                                               d
0000:29F3 BA
0000:29F4 D2 1B 2A
0000:29F7 3A 10 62
0000:29FA A7
                                                                               nc, loc_0_2A1B
                                                                               a, (unk_0_6210)
                                                                  and
0000:29FB 3A 03 62
                                                                  1d
                                                                               a. (mario x)
0000:29FE CA 08 2A
                                                                                z, loc_0_2A08
```

```
0000:2A01 F6 07
0000:2A03 D6 04
0000:2A05 C3 0E 2A
                                                                            sub
                                                                                            loc 0 2A0E
                                            loc_0_2A08:
                                                                                                                                                                            ; CODE XREF: sub 0 29AF+4F1 j
0000:2A08
0000:2A08 D6 08
0000:2A0A F6 07
0000:2A0C C6 04
                                                                            sub
                                                                            or
add
                                                                                            a, 4
0000:2A0E
0000:2A0E
0000:2A0E
0000:2A0E 32 03 62
0000:2A11 32 4C 69
0000:2A14 3E 01
0000:2A16 06 00
0000:2A18 33
0000:2A19 33
                                            loc_0_2A0E:
                                                                                                                                                                            ; CODE XREF: sub_0_29AF+56 j
                                                                                            (mario_x), a
(soft_sprite_ram+4Ch), a
                                                                            ld
                                                                            ld
ld
                                                                            inc
                                                                                            sp
                                                                            inc
                                                                                            gp
0000:2A1A C9
0000:2A1B
0000:2A1B
                                                                            ret
0000:2A1B
0000:2A1B AF
0000:2A1C 32 00 62
0000:2A1F C9
                                            loc_0_2A1B:
                                                                                                                                                                            ; CODE XREF: sub 0 29AF+451i
                                                                            xor
ld
                                                                                            (is_mario_alive), a
                                                                            ret
0000:2A20
0000:2A20
0000:2A20
0000:2A20
0000:2A20 47
0000:2A21 C9
0000:2A21
0000:2A21
0000:2A22
                                                                                                                                                                            ; CODE XREF: sub_0_29AF+12<sup>†</sup>j
                                             loc_0_2A20:
                                                                            ld
                                                                                            b, a
                                                                            ret
                                             ; End of function sub_0_29AF
0000: 2A22
0000: 2A22
0000: 2A22
0000: 2A22
                                                                        SUBROUTINE
                                                                                                                                                                            ; CODE XREF: sub 0 29AF+E1p
                                            sub 0 2A22:
0000:2A22 06 06 00000:2A24 11 10 00 0000:2A27 DD 21 00 66 0000:2A2B CD 13 29 0000:2A2E C9 0000:2A2E 0000:2A2E
                                                                                            b, 6
de, 10h
ix, unk_0_6600
                                                                            1d
                                                                            ld
ld
                                                                            call
                                                                                            sub 0 2913
                                             ret; End of function sub_0_2A22
0000:2A2F
 0000:2A2F
0000:2A2F
                                                          SUBROUTINE
0000:2A2F
0000:2A2F
0000:2A2F DD 7E 03
0000:2A2F
                                                                                                                                                                             ; CODE XREF: sub_0_1F72+E5\uparrow p; sub_0_1F72+188\uparrow p
                                            sub 0 2A2F:
                                                                                            a, (ix+3)
0000:2A2F
0000:2A32 67
0000:2A33 DD 7E 05
0000:2A36 C6 04
0000:2A38 6F
                                                                            ld
ld
                                                                                            h, a
a, (ix+5)
                                                                                            a, (i
a, 4
l, a
                                                                            add
ld
0000:2A39 E5
0000:2A3A CD F0 2F
0000:2A3D D1
0000:2A3E 7E
                                                                            push
call
                                                                                            h1
                                                                                            sub_0_2FF0
de
a, (hl)
                                                                            pop
ld
0000:2A3E FE B0
0000:2A41 DA 7B 2A
0000:2A44 E6 OF
0000:2A46 FE 08
0000:2A48 D2 7B 2A
                                                                            cp
jp
and
                                                                                            0B0h ;
                                                                                            c, loc_0_2A7B
OFh
                                                                            cp
jp
cp
jp
cp
jp
cp
                                                                                            nc, loc_0_2A7B
0000:2A48 D2 7B 2A

0000:2A46 FE CO

0000:2A4C FE CO

0000:2A4E CA 7B 2A

0000:2A51 DA 69 2A

0000:2A54 FE DO

0000:2A56 DA 6E 2A

0000:2A59 FE EO
                                                                                            a, (hl)
0C0h; 'L'
                                                                                           z, loc_0_2A7B
c, loc_0_2A69
0D0h; '&'
c, loc_0_2A6E
0E0h; '&'
0000:2A59 FE EU
0000:2A5B DA 63 2A
0000:2A5E FE FO
0000:2A60 DA 6E 2A
                                                                                            c, loc_0_2A63

OFOh ; '-'

c, loc_0_2A6E
                                                                            jр
0000:2A63
0000:2A63
0000:2A63 E6 OF
0000:2A65 3D
                                            loc_0_2A63:
                                                                                                                                                                            ; CODE XREF: sub_0_2A2F+2C<sup>†</sup>j
                                                                                            0Fh
                                                                            and
0000:2A65 3D
0000:2A66 C3 72 2A
0000:2A69
0000:2A69
                                                                            jp
                                                                                            loc_0_2A72
                                            loc_0_2A69:
                                                                                                                                                                            ; CODE XREF: sub 0 2A2F+221i
0000:2A69
0000:2A69 3E FF
0000:2A6B C3 72 2A
0000:2A6E
0000:2A6E
                                                                            ld
                                                                                                0FFh
                                                                            jp
                                                                                             loc_0_2A72
0000:2A6E
0000:2A6E E6 OF
                                            loc_0_2A6E:
                                                                                                                                                                            ; CODE XREF: sub_0_2A2F+27\uparrow j; sub_0_2A2F+31\uparrow j
0000:2A6E
0000:2A70 D6 09
0000:2A72
0000:2A72
0000:2A72 4F
                                                                                            0Fh
9
                                                                            sub
                                                                                                                                                                            ; CODE XREF: sub_0_2A2F+37†j; sub_0_2A2F+3C†j
                                            loc_0_2A72:
0000:2A72 4F
0000:2A73 7B
0000:2A73 7B
0000:2A74 E6 F8
0000:2A77 BB
0000:2A78 DA 7D 2A
0000:2A7B
0000:2A7B
0000:2A7B
0000:2A7B
0000:2A7B
0000:2A7B
0000:2A7D
0000:2A7D
0000:2A7D
0000:2A7D
0000:2A7D
0000:2A7D
0000:2A7D
0000:2A7D
                                                                                            c, a
a, e
0F8h ; '°'
                                                                            1d
                                                                            ld
                                                                            and
                                                                            add
                                                                                            a. c
                                                                            cp
jp
                                                                                             c, loc_0_2A7D
                                                                                                                                                                            ; CODE XREF: sub_0_2A2F+12<sup>†</sup>j
; sub_0_2A2F+19<sup>†</sup>j ...
                                            loc 0 2A7B:
                                                                            ret
                                                                                                                                                                             ; CODE XREF: sub_0_2A2F+49<sup>†</sup>j
                                             loc_0_2A7D:
0000:2A7D D6 04
0000:2A7F DD 77 05
0000:2A82 3E 01
0000:2A84 C9
                                                                            sub
                                                                                            (ix+5), a
                                                                            ld
                                                                            ld
                                                                            ret
                                            ; End of function sub_0_2A2F
0000:2A84
0000:2A84
0000:2A85
0000:2A85
                                             ; SUBROUTINE
0000:2A85
0000:2A85
```

```
0000:2A85
                                                                          sub_0_2A85:
                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:19A1\p
 0000:2A85 3A 15 62
                                                                                                                                1d
                                                                                                                                                          a, (mario_climbing)
0000:2A85 3A 15 62

0000:2A88 A7

0000:2A89 C0

0000:2A8A 3A 16 62

0000:2A8B C0

0000:2A8E C0

0000:2A8F 3A 98 63

0000:2A92 FE 01
                                                                                                                                and
ret
ld
                                                                                                                                                                                                                                                                                                 ; climbing?
; yes, return
                                                                                                                                                          a, (mario_jumping)
                                                                                                                                and
                                                                                                                                                                                                                                                                                                  ; jumping?
                                                                                                                                ret
ld
                                                                                                                                                         a, (mario_on_elevator)
                                                                                                                                                                                                                                                                                                  ; yes, return
                                                                                                                                                                                                                                                                                                  ; on elevator?
                                                                                                                                ср
ret
ld
sub
ld
ld
                                                                                                                                                                                                                                                                                                  ; yes, return
                                                                                                                                                          a, (mario_x)
                                                                                                                                                          h, a
                                                                                                                                                         a, (mario_y)
a, OCh
l, a
hl
                                                                                                                                add
ld
                                                                                                                                push
call
pop
ld
0000:2AA1 E5
0000:2AA5 D1 F0 2F
0000:2AA5 D1
0000:2AA6 7E
0000:2AA7 FE B0
0000:2AA9 DA B4 2A
0000:2AA6 FE 08
0000:2AA6 FE 08
0000:2AB0 D2 B4 2A
0000:2AB0 D2 B4 2A
0000:2AB4 0000:2AB4
0000:2AB4 7A
                                                                                                                                                          sub_0_2FF0
de
a, (h1)
                                                                                                                                cp
jp
and
                                                                                                                                                           0B0h ;
                                                                                                                                                           c, loc_0_2AB4
0Fh
                                                                                                                                ср
                                                                                                                                jp
ret
                                                                                                                                                          nc, loc_0_2AB4
                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2A85+24\uparrow j; sub_0_2A85+2B\uparrow j
                                                                          loc_0_2AB4:
 0000:2AB4
0000:2AB4 7A
0000:2AB4
0000:2AB5 E6 07
                                                                                                                                                         a, d
                                                                                                                                ld
                                                                                                                                and
                                                                                                                                                          z, loc_0_2ACD
bc, 20h; ''
hl, bc
 0000:2AB7 CA CD 2A
0000:2ABA 01 20 00
0000:2ABD ED 42
0000:2ABF 7E
                                                                                                                                jp
ld
                                                                                                                                sbc
ld
                                                                                                                                                                     (hl)
 0000:2AC0 FE B0
0000:2AC2 DA CD 2A
0000:2AC5 E6 0F
0000:2AC7 FE 08
                                                                                                                                cp
jp
                                                                                                                                                           0B0h
                                                                                                                                                                     loc_0_2ACD
                                                                                                                                                           с,
0Fh
                                                                                                                                and
                                                                                                                                cp
jp
ret
 0000:2AC9 D2 CD 2A
0000:2ACC C9
0000:2ACD
0000:2ACD
                                                                                                                                                           nc, loc_0_2ACD
0000:2ACD
0000:2ACD 3E 01
0000:2ACD 3E 01
0000:2ACD 3E 01
0000:2ACF 32 21 62
0000:2AD2 C9
0000:2AD2
                                                                                                                                                                                                                                                                                                  ; CODE XREF: sub_0_2A85+32<sup>†</sup>j; sub_0_2A85+3D<sup>†</sup>j ...
                                                                          loc_0_2ACD:
                                                                                                                                ld
                                                                                                                                                           a, 1
(unk_0_6221), a
                                                                                                                                14
                                                                                                                                ret
                                                                          ; End of function sub_0_2A85
 0000: 2AD3
0000: 2AD3
0000: 2AD3
                                                                                                                               SUBROUTINE
0000: 2AD3
0000: 2AD3
0000: 2AD3
3A 03 62
0000: 2AD6 47
0000: 2ADA FE 50
0000: 2ADA FE 50
0000: 2ADA FE 50
0000: 2ADF FE 78
0000: 2AB1 CA F6 2A
0000: 2AB2 FE 78
0000: 2AB2 FE 62
0000: 2AB3 FE 78
0000: 2AB3 CA F0 2A
 0000:2AD3
                                                                          sub_0_2AD3:
                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_25F2+C<sup>†</sup>p
                                                                                                                                                           a, (mario_x)
                                                                                                                                ld
                                                                                                                                                          b, a
                                                                                                                                ld
cp
jp
                                                                                                                                                           a, (mario_y)
50h; 'P'
z, loc_0_2AEA
78h; 'x'
                                                                                                                                cp
jp
cp
jp
                                                                                                                                                           z, loc_0_2AF6
                                                                                                                                                           z, loc_0_2AF0
                                                                           loc_0_2AEA:
                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2AD3+9<sup>†</sup>j
0000:2AEA 3A A3 63
0000:2AED C3 02 2B
0000:2AF0
0000:2AF0
                                                                                                                                ld
                                                                                                                                                                    (unk 0 63A3)
                                                                                                                                                          loc_0_2B02
 0000:2AF0
                                                                          loc_0_2AF0:
                                                                                                                                                                                                                                                                                                  ; CODE XREF: sub_0_2AD3+13 j
 0000:2AF0
0000:2AF0 3A A6 63
0000:2AF3 C3 02 2B
0000:2AF6
                                                                                                                                ld
                                                                                                                                                                 (unk_0_63A6)
                                                                                                                                                           loc_0_2B02
                                                                                                                                jр
0000:2AF6
0000:2AF6
0000:2AF6 78
0000:2AF7 FE 80
0000:2AF7 3A A5 63
0000:2AFC D2 02 2B
0000:2AFF 3A A4 63
                                                                           loc_0_2AF6:
                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2AD3+E^jj
                                                                                                                                                         a, b
80h; 'C'
a, (unk_0_63A5)
nc, loc_0_2B02
a, (unk_0_63A4)
                                                                                                                                ld
                                                                                                                                cp
ld
                                                                                                                                jp
ld
 0000:2B02
0000:2B02
0000:2B02
0000:2B02
0000:2B03
0000:2B03
0000:2B06
00000:2B06
0000:2B06
0000:
                                                                          loc_0_2B02:
                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2AD3+1A<sup>†</sup>j; sub_0_2AD3+20<sup>†</sup>j ...
                                                                                                                                add
ld
ld
call
ld
                                                                                                                                                          a, b
(mario_x), a
(soft_sprite_ram+4Ch), a
sub_0_241F
                                                                                                                                                          hl, mario_x
0000:2B0C 21 03 62
0000:2B0F 1D
0000:2B10 CA 18 2B
0000:2B13 15
0000:2B14 CA 1A 2B
0000:2B17 C9
0000:2B18
0000:2B18
                                                                                                                                                         e
z, loc_0_2B18
                                                                                                                                dec
                                                                                                                                jp
dec
                                                                                                                                                           z, loc_0_2B1A
                                                                                                                                jр
0000:2B18
0000:2B18 35
0000:2B19 C9
0000:2B1A
0000:2B1A
0000:2B1A
0000:2B1B C9
0000:2B1B C9
0000:2B1B
0000:2B1C
 0000:2B18
                                                                          loc 0 2B18:
                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub 0 2AD3+3D1 i
                                                                                                                                                          (hl)
                                                                          loc_0_2B1A:
                                                                                                                                                                                                                                                                                                  ; CODE XREF: sub_0_2AD3+41<sup>†</sup> j
                                                                                                                                ret
                                                                          ; End of function sub_0_2AD3
  0000:2B1C
                                                                                                                             SUBROUTINE
 0000:2B1C
0000:2B1C
0000:2B1C
                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+142\p
                                                                         sub_0_2B1C:
 0000:2B1C DD 21 00 62
                                                                                                                                1d
                                                                                                                                                          ix, is_mario_alive
 0000:2B20 CD 29 2B
                                                                                                                                call
                                                                                                                                                          sub_0_2B29
```

```
0000:2B23 CD AF 29
                                                                           call
                                                                                          sub_0_29AF
0000:2B26 AF
0000:2B27 47
0000:2B28 C9
0000:2B28
                                                                           xor
                                                                           1d
                                                                                          b, a
                                            ; End of function sub_0_2B1C
0000:2B28
0000:2B29
0000:2B29
0000:2B29
                                                                          SUBROUTINE
0000:2B29
0000:2B29
0000:2B29 3A 27 62
0000:2B2C 3D
                                            sub_0_2B29:
                                                                                                                                                                          ; CODE XREF: sub_0_2B1C+4\p
                                                                           ld
                                                                                          a, (level_type)
0000:2B2C 3D 0000:2B2D C2 53 2B 0000:2B3D 3A 03 62 0000:2B33 67 0000:2B34 3A 05 62 0000:2B37 C6 07 0000:2B3A CD 9B 2B 0000:2B3A CD 9B 2B 0000:2B3A CD 9B 2B
                                                                           dec
                                                                           jp
ld
ld
                                                                                          nz, loc_0_2B53
a, (mario_x)
                                                                                          a, (1
h, a
                                                                                                 (mario v)
                                                                           ld
                                                                                          a.
                                                                           add
ld
call
                                                                                          sub_0_2B9B
0000:2B3D A7
                                                                           and
0000:2B3E CA 51 2B
0000:2B41 7B
0000:2B42 91
                                                                           jp
1d
                                                                                           z, loc_0_2B51
                                                                           sub
                                                                           cp
jp
ld
0000:2B43 FE 04
0000:2B43 FE 04

0000:2B45 D2 74 2B

0000:2B48 79

0000:2B49 D6 07

0000:2B4B 32 05 62

0000:2B46 3E 01

0000:2B50 47

0000:2B51
                                                                                           nc, loc_0_2B74
                                                                           sub
ld
                                                                                           (mario_y), a
                                                                           ld
ld
                                                                                          a, 1
b, a
0000:2B51
0000:2B51 E1
0000:2B52 C9
0000:2B53
                                            loc_0_2B51:
                                                                                                                                                                         ; CODE XREF: sub 0 2B29+1511
                                                                                          hl
                                                                           ret
0000:2B53
0000:2B53
0000:2B53
0000:2B53 3A 03 62
0000:2B56 D6 03
0000:2B58 67
0000:2B59 3A 05 62
0000:2B59 C6 07
                                            loc_0_2B53:
                                                                                                                                                                          ; CODE XREF: sub_0_2B29+4<sup>†</sup>j
                                                                           ld
                                                                                          a, (mario_x)
                                                                           sub
ld
ld
                                                                                          a, (mario_y)
                                                                           add
ld
                                                                                           a,
1,
0000:2B5E 6F
0000:2B5F CD 9B 2B
0000:2B62 FE 02
                                                                           call
cp
                                                                                           sub_0_2B9B
0000:2B62 FE 02
0000:2B64 CA 7A 2B
0000:2B67 7A
0000:2B68 C6 07
0000:2B6A 67
                                                                                           z, loc_0_2B7A
                                                                           jp
ld
                                                                                                d
7
                                                                           add
ld
ld
                                                                                           h, a
0000:2B6B 6B
                                                                                           1,
0000:2B6C CD 9B 2B
0000:2B6F A7
0000:2B70 C8
                                                                           call
and
ret
                                                                                           sub_0_2B9B
0000:2B71 C3 7A 2B
0000:2B74
0000:2B74
0000:2B74
                                                                           jp
                                                                                           loc 0 2B7A
0000:2874
0000:2874 3E 00
0000:2876 06 00
0000:2878 E1
0000:2878 00
0000:287A
0000:287A
0000:287A
0000:287A
0000:287A 3A 10 62
0000:287D A7
0000:287D A7
0000:287B 3A 03 62
0000:2881 CA 8B 28
0000:2884 F6 07
0000:2886 D6 04
0000:2886 C3 91 28
                                                                                                                                                                          ; CODE XREF: sub_0_2B29+1C<sup>†</sup> j
                                            loc_0_2B74:
                                                                                          a, 0
b, 0
hl
                                                                           ld
ld
                                                                           pop
                                                                           ret
                                                                                                                                                                          ; CODE XREF: sub_0_2B29+3B<sup>†</sup>j; sub_0_2B29+48<sup>†</sup>j
                                            loc_0_2B7A:
                                                                                          a, (unk_0_6210)
a
                                                                           ld
                                                                           and
ld
                                                                                                 (mario_x)
                                                                           jp
or
sub
                                                                                           z, loc_0_2B8B
                                                                                           loc_0_2B91
                                                                           jр
0000:2B8B
0000:2B8B
0000:2B8B
0000:2B8B D6 08
                                            loc_0_2B8B:
                                                                                                                                                                          ; CODE XREF: sub_0_2B29+58 j
                                                                                          8
7
                                                                           sub
0000:2B8D F6 07
0000:2B8F C6 04
0000:2B91
                                                                           add
                                                                                           a, 4
0000:2B91
                                                                                                                                                                         ; CODE XREF: sub 0 2B29+5F1i
                                            loc 0 2B91:
0000:2B91 32 03 62
0000:2B94 32 4C 69
0000:2B97 3E 01
                                                                                           (mario_x), a
(soft_sprite_ram+4Ch), a
                                                                           1d
                                                                           ld
                                                                                          a,
hl
                                            pop hl ret; End of function sub_0_2B29
0000:2B99 E1
0000:2B9A C9
0000:2B9A
0000:2B9A
0000:2B9A
0000:2B9B
0000:2B9B
0000:2B9B
                                            ; SUBROUTINE
0000:2B9B
0000:2B9B E5
0000:2B9B
0000:2B9C CD F0 2F
                                                                                                                                                                          ; CODE XREF: sub_0_2B29+11†p
; sub_0_2B29+36†p ...
                                            sub 0 2B9B:
                                                                                          hl
                                                                           push
                                                                                           sub 0 2FF0
                                                                           call
0000:2B9F D1
0000:2BA0 7E
0000:2BA1 FE B0
                                                                                          de
a, (hl)
0B0h; '"
                                                                           ср
                                                                                          c, loc_0_2BD9
                                                                           jp
and
cp
0000:2BA3 DA D9 2B
0000:2BA3 DA D9 2B
0000:2BA8 E6 OF
0000:2BA8 FE 08
0000:2BAA D2 D9 2B
0000:2BAD 7E
0000:2BAE FE C0
0000:2BBB CA D9 2B
0000:2BBB DA DC 2B
                                                                                          nc, loc_0_2BD9
a, (hl)
0C0h; 'L'
z, loc_0_2BD9
                                                                           jp
ld
                                                                           cp
jp
jp
cp
jp
                                                                                                loc_0_2BDC
                                                                                          c, loc
0000:2BB8 DA CB 2B
0000:2BBB FE E0
                                                                                          c, loc_0_2BCB
0E0h ; 'Ó'
                                                                           ср
0000:2BBD DA C5 2B
                                                                           jp
cp
jp
                                                                                             , loc_0_2BC5
0000:2BC0 FE F0
0000:2BC2 DA CB 2B
0000:2BC5
                                                                                           c, loc_0_2BCB
0000:2BC5
                                           loc 0 2BC5:
                                                                                                                                                                          ; CODE XREF: sub 0 2B9B+221 j
0000:2BC5 E6 OF
                                                                           and
                                                                                          0Fh
```

```
0000:2BC7
0000:2BC8 C3 CF 2B
0000:2BCB
                                                                                  loc 0 2BCF
                                                                    qį
                                                                                                                                                          ; CODE XREF: sub_0_2B9B+1D<sup>†</sup>j; sub_0_2B9B+27<sup>†</sup>j
                                       loc_0_2BCB:
0000:2BCB E6 OF
0000:2BCB
0000:2BCB
0000:2BCD D6 09
0000:2BCF
                                                                                  0Fh
                                                                    sub
                                                                                                                                                          ; CODE XREF: sub 0 2B9B+2D11
0000:2BCF
                                       loc 0 2BCF:
                                                                                  c, a
a, e
0F8h ; '°'
0000:2BCF 4F
                                                                    14
0000:2BCF 4F
0000:2BD0 7B
0000:2BD1 E6 F8
                                                                    ld
                                                                    and
0000:2BD3 81
0000:2BD4 4F
0000:2BD5 BB
0000:2BD6 DA E1 2B
                                                                    add
1d
                                                                                  a, c
c, a
                                                                    ср
                                                                                   c. loc 0 2BE1
                                                                    jр
0000:2BD0
0000:2BD9
0000:2BD9
0000:2BD9 AF
                                                                                                                                                          ; CODE XREF: sub_0_2B9B+8<sup>†</sup>j; sub_0_2B9B+F<sup>†</sup>j ...
                                       loc_0_2BD9:
                                                                    xor
0000:2BDA 47
0000:2BDB C9
0000:2BDC
                                                                    1d
                                                                                  b, a
0000:2BDC
0000:2BDC
0000:2BDC 7B
0000:2BDC 7B
0000:2BDF 3D
0000:2BDF 3D
0000:2BE0 4F
0000:2BE1
0000:2BE1 3D 00
                                       loc_0_2BDC:
                                                                                                                                                           ; CODE XREF: sub_0_2B9B+18<sup>†</sup>j
                                                                    ld
                                                                                  a, e
0F8h ; '°'
                                                                    and
                                                                    ld
                                       loc_0_2BE1:
                                                                                                                                                          ; CODE XREF: sub_0_2B9B+3B|j
0000:2BE1 3A 0C 62
0000:2BE4 DD 96 05
0000:2BE7 83
0000:2BE8 B9
                                                                                  a, (ma
(ix+5)
                                                                    1d
                                                                                       (mario_y_before_jump)
                                                                    sub
add
                                                                                  a, e
c
                                                                    cp
jp
jp
0000:2BE9 CA EF 2B
0000:2BEC D2 F8 2B
0000:2BEF
                                                                                  z, loc_0_2BEF
nc, loc_0_2BF8
0000:2BEF
                                                                                                                                                          ; CODE XREF: sub 0 2B9B+4E1i
                                       loc 0 2BEF:
0000:2BEF 79
0000:2BF0 D6 07
0000:2BF2 32 05 62
0000:2BF5 C3 FD 2B
                                                                    1d
                                                                    sub
ld
                                                                                  (mario_y),
loc_0_2BFD
                                                                    jp
0000:2BF8
                                       loc 0 2BF8:
                                                                                                                                                          ; CODE XREF: sub 0 2B9B+511j
0000:2BF8 3E 02
0000:2BFA 06 00
0000:2BFC C9
                                                                    14
                                                                                  a, 2
b, 0
                                                                    ld
                                                                    ret
0000:2BFD
0000:2BFD
0000:2BFD
0000:2BFD 3E 01
                                                                                                                                                          ; CODE XREF: sub_0_2B9B+5A1j
                                       loc_0_2BFD:
                                                                                  a, 1
                                                                    ld
0000:2BFF 47
0000:2C00 E1
0000:2C01 E1
0000:2C02 C9
                                                                                  b, a
hl
hl
                                                                    1d
                                                                    pop
                                                                    ret
0000:2C02
0000:2C02
0000:2C03
0000:2C03
                                       ; End of function sub_0_2B9B
                                       ; SUBROUTINE
0000:2C03
0000:2C03
0000:2C03
0000:2C03 3E 01
0000:2C05 F7
                                                                                                                                                           ; CODE XREF: 0000:1989 p
                                       sub_0_2C03:
                                                                    ld
                                                                                  a, 1
30h
                                                                                                                                                          ; return if level bit not set
; return if mario not alive
                                                                    rst
0000:2C05 F7
0000:2C06 D7
0000:2C07 3A 93 63
0000:2C0A 0F
                                                                    rst
ld
                                                                                  a, (barrel_deployment)
                                                                    rrca
0000:2C0B D8
0000:2C0C 3A B1 62
0000:2C0F A7
                                                                    ret
ld
                                                                                  a, (unk_0_62B1)
                                                                    and
0000:2C0F A7
0000:2C10 C8
0000:2C11 4F
0000:2C12 3A B0 62
0000:2C15 D6 02
0000:2C17 B9
0000:2C18 DA 7B 2C
0000:2C1B 3A 82 63
0000:2C1E CB 4F
                                                                    ret
ld
ld
                                                                                  a, (unk_0_62B0)
                                                                    sub
                                                                    cp
jp
ld
                                                                                  c, loc_0_2C7B
a, (unk_0_6382)
1, a
                                                                    bit
0000:2C1E CB 4F
0000:2C20 C2 86 2C
0000:2C23 3A 80 63
0000:2C26 47
                                                                    jp
ld
ld
                                                                                  nz, loc_0_2C86
a, (unk_0_6380)
b, a
0000:2C27 3A 1A 60
0000:2C2A E6 1F
0000:2C2C
                                                                    ld
                                                                                        (gen_purpose_timer)
0000:2C2C
0000:2C2C B8
0000:2C2D CA 33 2C
0000:2C30 10 FA
0000:2C32 C9
                                       loc 0 2C2C:
                                                                                                                                                          ; CODE XREF: sub 0 2C03+2D-j
                                                                    ср
                                                                                  z, loc_0_2C33
loc_0_2C2C
                                                                    ret
0000:2C32 C9

0000:2C33

0000:2C33

0000:2C33

0000:2C33 3A B0 62

0000:2C36 CB 3F

0000:2C38 B9

0000:2C39 DA 41 2C

0000:2C3C 3A 19 60

0000:2C3F 0F
                                       loc_0_2C33:
                                                                                                                                                           ; CODE XREF: sub_0_2C03+2A j
                                                                    ld
                                                                                  a. (unk 0 62B0)
                                                                    srl
cp
                                                                                  c, loc_0_2C41
                                                                    jp
ld
                                                                                  a, (random_no+1)
0000:2C40 D0
0000:2C41
0000:2C41
0000:2C41 CD 57 00
0000:2C44 E6 0F
0000:2C46 C2 86 2C
                                                                                                                                                          ; CODE XREF: sub 0 2C03+361i
                                       loc_0_2C41:
                                                                    call
                                                                                  rand
                                                                                  nz, loc 0 2C86
                                                                    jр
0000:2C49
                                       loc_0_2C49:
                                                                                                                                                          ; CODE XREF: sub_0_2C03+7B|j
                                                                    ld
0000:2C4B
 0000:2C4B
                                       loc_0_2C4B:
                                                                                                                                                          ; CODE XREF: sub_0_2C03+80 j
0000:2C4B
0000:2C4B 32 82 63
0000:2C4E 3C
                                                                                   (unk_0_6382), a
                                                                    inc
0000:2C4F
0000:2C4F
                                       loc_0_2C4F:
                                                                                                                                                          ; CODE XREF: sub_0_2C03+89|j
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 21/11/2013, 12:01:24 AM
0000:2C4F 32 8F 63
                                                                          ld
                                                                                         (unk_0_638F), a
0000:2C4F 32 8F 63

0000:2C52 3E 01

0000:2C54 32 92 63

0000:2C57 3A B2 62

0000:2C5A B9

0000:2C5B C0

0000:2C5C D6 08

0000:2C5E 32 B2 62

0000:2C61 11 20 00

0000:2C64 21 00 64

0000:2C67 06 05
                                                                          ld
                                                                                        a, 1
(unk_0_6392), a
a, (unk_0_62B2)
                                                                         ld
ld
                                                                          ср
                                                                          ret
                                                                                         nz
                                                                          sub
                                                                          ld
                                                                                          (unk_0_62B2), a
                                                                                         de, 20h; 'hl, unk_0_6400 b, 5
                                                                          ld
                                                                                                                                                                     ; fireball character data
                                                                          ld
0000:2C67 06 05
0000:2C69
0000:2C69
                                                                          ld
                                           loc_0_2C69:
                                                                                                                                                                     ; CODE XREF: sub_0_2C03+6C|j
0000:2C69

0000:2C6A A7

0000:2C6B CA 72 2C

0000:2C6E P

0000:2C6F 10 F8

0000:2C71 C9

0000:2C72
                                                                          1d
                                                                                         a, (hl)
                                                                                        a
z, loc_0_2C72
hl, de
                                                                           and
                                                                          jp
add
                                                                                         loc_0_2C69
                                                                         djnz
ret
0000:2C72
0000:2C72
0000:2C72 3A 82 63
0000:2C75 F6 80
0000:2C77 32 82 63
0000:2C7A C9
0000:2C7B
                                           loc_0_2C72:
                                                                                                                                                                      ; CODE XREF: sub_0_2C03+681j
                                                                          ld
                                                                                         a, (unk_0_6382)
80h; 'C'
                                                                          or
ld
                                                                                         (unk_0_6382), a
0000:2C7B
0000:2C7B
                                                                                                                                                                       ; CODE XREF: sub_0_2C03+15 j
                                           loc_0_2C7B:
0000:2C7B
0000:2C7B C6 02
0000:2C7D B9
0000:2C7E CA 49 2C
                                                                          add
                                                                         cp
jp
ld
                                                                                         z, loc_0_2C49
0000:2C81 3E 02
0000:2C83 C3 4B 2C
0000:2C86
0000:2C86
                                                                                         loc_0_2C4B
                                                                          jр
0000:2C86

0000:2C86

0000:2C86

AF

0000:2C87

0000:2C87

3E 03

0000:2C8C

0000:2C8C

0000:2C8C
                                                                                                                                                                       ; CODE XREF: sub_0_2C03+1D\uparrow j; sub_0_2C03+43\uparrow j
                                           loc_0_2C86:
                                                                          xor
                                                                                          (unk 0 6382), a
                                                                          1d
                                                                          1d
                                                                                          a, 3
loc_0_2C4F
                                                                          jp
                                           ; End of function sub 0 2C03
                                                                        SUBROUTINE
0000:2C8F
0000:2C8F
0000:2C8F
0000:2C8F
0000:2C8F 3E 01
0000:2C91 F7
0000:2C92 D7
0000:2C93 3A 93 63
0000:2C96 0F
                                          sub_0_2C8F:
                                                                                                                                                                       ; CODE XREF: 0000:1986 p
                                                                          ld
                                                                                         a, 1
30h
                                                                                                                                                                       ; return if level bit not set ; return if mario not alive
                                                                          rst
                                                                          rst
ld
                                                                                         10h
                                                                                         a, (barrel_deployment)
                                                                          rrca
0000:2C90 OF
0000:2C97 DA 15 2D
                                                                                         c, loc_0_2D15
a, (unk_0_6392)
                                                                          jp
ld
0000:2C97 DA 15 2D
0000:2C9A 3A 92 63
0000:2C9D 0F
0000:2C9E D0
                                                                          rrca
                                                                          ret
                                                                                         nc
0000:2C9F DD 21 00 67
0000:2CA3 11 20 00
0000:2CA6 06 0A
0000:2CA8
                                                                         ld
ld
ld
                                                                                         ix, unk_0_6700 de, 20h; 'b, 0Ah
0000:2CA8
                                          loc 0 2CA8:
                                                                                                                                                                     ; CODE XREF: sub 0 2C8F+26+i
0000:2CA8 DD 7E 00
0000:2CAB DF
0000:2CAC DA B3 2C
0000:2CAF 0F
0000:2CB0 D2 B8 2C
0000:2CB3
                                                                         ld
rrca
                                                                                         a, (ix+0)
                                                                                         c, loc_0_2CB3
                                                                          jp
rrca
                                                                                         nc, loc_0_2CB8
                                                                          jp
                                          loc_0_2CB3:
0000:2CB3
                                                                                                                                                                      ; CODE XREF: sub 0 2C8F+1D|j
0000:2CB3 DD 19
0000:2CB5 10 F1
0000:2CB7 C9
                                                                                        ix, de
loc_0_2CA8
                                                                          add
                                                                          djnz
                                                                          ret
0000:2CB8
0000:2CB8
0000:2CB8
0000:2CB8
0000:2CB8 DD 22 AA 62
                                          loc_0_2CB8:
                                                                                                                                                                      ; CODE XREF: sub_0_2C8F+21 j
                                                                                         (unk 0 62AA), ix
                                                                          ld
0000:2CBC DD 36 00 02
0000:2CC0 16 00
0000:2CC2 3E 0A
                                                                                         (ix+0), 2
d, 0
a, 0Ah
                                                                          ld
                                                                          ld
ld
0000:2CC4 90
                                                                          sub
                                                                                         b
                                                                         add
add
ld
ld
0000:2CC4 90
0000:2CC5 87
0000:2CC6 87
0000:2CC7 5F
                                                                                        e, a
hl, soft_sprite_ram+80h
hl, de
(unk_0_62AC), hl
0000:2CC7 5F
0000:2CC8 21 80 69
0000:2CCB 19
0000:2CCC 22 AC 62
0000:2CCF 3E 01
0000:2CD1 32 93 63
0000:2CD1 10 10 10 05
0000:2CD7 CD 9F 30
0000:2CD2 21 B1 62
                                                                          add
ld
                                                                          ld
ld
                                                                                         a, 1
(barrel_deployment), a
                                                                         ld
call
ld
                                                                                         de, 501h
sub_0_309F
                                                                                        hl, unk_0_62B1
(hl)
0000:2CDD 35
0000:2CDE C2 E6 2C
0000:2CE1 3E 01
0000:2CE3 32 86 63
                                                                          dec
                                                                          jp
ld
                                                                                         nz, loc_0_2CE6
                                                                                         (unk_0_6386), a
                                                                          ld
0000:2CE5 32
0000:2CE6
0000:2CE6 7E
                                           loc_0_2CE6:
                                                                                                                                                                      ; CODE XREF: sub_0_2C8F+4F<sup>†</sup>j
                                                                                        a, (hl)
                                                                          ld
0000:2CE7 FE 04
0000:2CE9 D2 F6 2C
0000:2CEC 21 A8 69
0000:2CEF 87
                                                                         cp
jp
ld
                                                                                         nc, loc_0_2CF6
hl, soft_sprite_ram+0A8h
                                                                          add
                                                                                         a, a
a, a
0000:2CF0 87
                                                                          add
0000:2CF1 5F
0000:2CF2 16 00
0000:2CF4 19
0000:2CF5 72
                                                                          ld
ld
```

hl, de (hl), d

(ix+7), 15h (ix+8), 0Bh (ix+15h), 0

a, (unk\_0\_6382)

nc, loc\_0\_2D15

; CODE XREF: sub\_0\_2C8F+5A1 j

; sideways barrel sprite tile

add ld

ld

ld ld ld

rlca

loc\_0\_2CF6:

0000:2CF6 DD 36 07 15 0000:2CFA DD 36 08 0B 0000:2CFE DD 36 15 00 0000:2CFE DD 36 15 00 0000:2D02 3A 82 63 0000:2D05 07

0000:2D06 D2 15 2D

```
0000:2D09 DD 36 07 19
                                                                                                         (ix+7), 19h
                                                                                                                                                                                                    ; sideways blue barrel sprite tile
; set blue palette for barrel
                                                                                       ld
0000:2D0D DD 36 08 0C
0000:2D11 DD 36 15 01
0000:2D15
                                                                                                        (ix+8), 0Ch
(ix+15h), 1
                                                                                       ld
0000:2D15
0000:2D15
0000:2D15 21 AF 62
0000:2D15
0000:2D18 35
0000:2D19 C0
                                                 loc_0_2D15:
                                                                                                                                                                                                   ; CODE XREF: sub_0_2C8F+8<sup>†</sup>j; sub_0_2C8F+77<sup>†</sup>j
                                                                                       ld
                                                                                                       hl, unk_0_62AF (hl)
                                                                                      dec
ret
                                                                                                        nz (hl),
0000:2D19 C0
0000:2D1A 36 18
0000:2D1C 3A 8F 63
0000:2D1F A7
0000:2D20 CA 51 2D
                                                                                                                      18h
                                                                                       1d
                                                                                      ld
and
                                                                                                        a, (unk_0_638F)
                                                                                       jp
ld
ld
ld
                                                                                                        z, loc_0_2D51
0000:2D23 4F
0000:2D24 21 32 39
0000:2D27 3A 82 63
0000:2D2A 0F
                                                                                                        c, a
hl, dk_throw_barrel_spr
a, (unk_0_6382)
                                                                                       rrca
0000:2D2A 0F
0000:2D2B DA 2F 2D
0000:2D2E 0D
0000:2D2F
                                                                                                        c, loc_0_2D2F
                                                                                       jp
dec
0000:2D2F
                                                 loc 0 2D2F:
                                                                                                                                                                                                   ; CODE XREF: sub 0 2C8F+9C1i
0000:2D2F 79
0000:2D30 87
0000:2D31 87
                                                                                      ld
                                                                                                        a, c
a, a
                                                                                                        a, a
a, a
c, a
a, a
                                                                                       add
0000:2D32 87
                                                                                       add
0000:2D32 87
0000:2D34 87
0000:2D35 87
0000:2D36 81
                                                                                       ld
add
                                                                                                        a, a
a, c
e, a
d, 0
hl, de
                                                                                       add
                                                                                       add
0000:2D36 81
0000:2D37 5F
0000:2D38 16 00
0000:2D3A 19
                                                                                       ld
ld
                                                                                       add
0000:2D3A 19

0000:2D3B CD 4E 00

0000:2D3E 21 8F 63

0000:2D41 35

0000:2D42 C2 51 2D
                                                                                       call
ld
dec
                                                                                                        copy_sprites_2_11_data
hl, unk_0_638F
(hl)
nz, loc_0_2D51
                                                                                       jp
ld
0000:2D42 C2 S1 2D
0000:2D45 3E 01
0000:2D47 32 AF 62
0000:2D4A 3A 82 63
                                                                                       ld
ld
                                                                                                        (unk_0_62AF), a
a, (unk_0_6382)
0000:2D4A 3A 82 63
0000:2D4D 0F
0000:2D4E DA 83 2D
0000:2D51
0000:2D51
0000:2D51 2A A8 62
                                                                                       rrca
                                                                                                        c, loc_0_2D83
                                                                                                                                                                                                    ; CODE XREF: sub_0_2C8F+91 j
                                                  loc 0 2D51:
                                                                                                                                                                                                    ; sub_0_2C8F+B31 i
0000:2D51
0000:2D54
                                                                                      ld
                                                                                                        hl, (unk_0_62A8)
0000:2D54
                                                 loc 0 2D54:
                                                                                                                                                                                                   ; CODE XREF: sub 0 2C8F+FA-j
0000:2D54 7E
0000:2D55 DD 2A AA 62
0000:2D59 ED 5B AC 62
0000:2D5D FE 7F
                                                                                       14
                                                                                                        a, (hl)
                                                                                                        a, (hl)
ix, (unk_0_62AA)
de, (unk_0_62AC)
                                                                                       ld
ld
                                                                                       cp
jp
ld
                                                                                                         7Fh
0000:2D5F CA 8C 2D
0000:2D62 4F
0000:2D63 E6 7F
                                                                                                         z, loc_0_2D8C
                                                                                                         c, a
7Fh ; ' '
                                                                                       and
                                                                                                        (de), a
a, (ix+7)
7, c
z, loc_0_2D70
                                                                                                                                                                                                    ; sprite data X coord
; sprite tile #
0000:2D65 12
                                                                                       1d
0000:2D65 12
0000:2D66 DD 7E 07
0000:2D69 CB 79
0000:2D6B CA 70 2D
                                                                                      ld
bit
                                                                                       jр
0000:2D6E EE 03
0000:2D70
0000:2D70
0000:2D70 13
                                                  loc_0_2D70:
                                                                                                                                                                                                    ; CODE XREF: sub_0_2C8F+DC j
                                                                                                        (de), a
(ix+7), a
a, (ix+8)
                                                                                                                                                                                                   ; sprite tile # (barrel)
; sprite tile #
0000:2D71 12
                                                                                       ld
0000:2D72 DD 77 07
0000:2D75 DD 7E 08
0000:2D78 13
0000:2D79 12
                                                                                       ld
ld
                                                                                       inc
                                                                                                        de
                                                                                       ld
inc
ld
                                                                                                          (de), a
0000:2D79 12
0000:2D7A 23
0000:2D7B 7E
                                                                                                       a, (hl)
de
0000:2D7C 13
0000:2D7D 12
                                                                                       inc
                                                                                                           (de), a
                                                                                       ld
0000:2D7E 12
0000:2D7E 23
0000:2D7F 22 A8 62
                                                                                       inc
ld
                                                                                                         (unk_0_62A8), hl
0000:2D82 C9
0000:2D83
0000:2D83
0000:2D83
                                                                                       ret
                                                  loc 0 2D83:
                                                                                                                                                                                                    ; CODE XREF: sub 0 2C8F+BF1i
0000:2D83 21 CC 39
0000:2D86 22 A8 62
0000:2D89 C3 54 2D
0000:2D8C
0000:2D8C
0000:2D8C 21 C3 39
0000:2D8C 21 C3 39
                                                                                                        hl, barrel_falling_data
(unk_0_62A8), hl
loc_0_2D54
                                                                                       1d
                                                                                       ld
                                                                                       jр
                                                                                                                                                                                                    ; CODE XREF: sub_0_2C8F+D0<sup>†</sup> j
                                                  loc_0_2D8C:
                                                                                                        hl, barell_rolling_data
                                                                                       ld
0000:2D8C 21 C3 39
0000:2D8F 22 A8 62
0000:2D92 DD 36 01 01
0000:2D96 3A 82 63
0000:2D99 0F
0000:2D9A DA A5 2D
0000:2D9D DD 36 01 00
0000:2DA1 DD 36 02 02
0000:2DA5
                                                                                       ld
                                                                                                         (unk_0_62A8), hl
                                                                                       ld
ld
                                                                                                        (ix+1), 1
a, (unk_0_6382)
                                                                                      rrca
jp
ld
ld
                                                                                                        c, loc_0_2DA5
                                                                                                        (ix+1), 0
(ix+2), 2
0000:2DA5
0000:2DA5 DD 36 00 01
0000:2DA5 DD 36 0F 01
0000:2DAD AF
0000:2DAD AF
0000:2DAD DD 77 10
0000:2DB1 DD 77 11
0000:2DB4 DD 77 12
0000:2DB7 DD 77 13
0000:2DBA DD 77 14
0000:2DBA DD 77 14
0000:2DBA DD 77 14
0000:2DBA DD 77 14
0000:2DBA DD 77 03
0000:2DCA DD 77 03
0000:2DCA DD 77 03
0000:2DCB 13
0000:2DCB 13
0000:2DCB 13
0000:2DCB 13
0000:2DCA LA
0000:2DA5
                                                  loc 0 2DA5:
                                                                                                                                                                                                  ; CODE XREF: sub 0 2C8F+10Bf j
                                                                                                        (ix+0), 1
(ix+0Fh), 1
                                                                                       ld
                                                                                       ld
                                                                                       xor
                                                                                                         (ix+10h), a
                                                                                      ld
ld
ld
                                                                                                        (ix+10h), a
(ix+11h), a
(ix+12h), a
(ix+13h), a
(ix+14h), a
(barrel_deployment), a
(unk_0_6392), a
                                                                                       ld
                                                                                      ld
ld
ld
                                                                                                        a, (de)
(ix+3), a
                                                                                       ld
                                                                                       ld
inc
                                                                                       inc
                                                                                                        de
de
                                                                                       inc
0000:2DC9 13
0000:2DCA 1A
0000:2DCB DD 77 05
0000:2DCE 21 5C 38
0000:2DD1 CD 4E 00
0000:2DD4 21 0B 69
0000:2DD7 0E FC
                                                                                                        a, (de)
(ix+5), a
hl, kong_normal_spr
                                                                                       ld
ld
                                                                                       ld
                                                                                      call
ld
ld
                                                                                                        nr, kong_lormal_spr
copy_sprites_2_ll_data
hl, soft_sprite_ram+0Bh
c, 0FCh; '3'
38h
                                                                                                                                                                                                    ; sprite #2, x coord
                                                                                      rst
ret
                                                                                                                                                                                                    ; subtract 4 from x coord for 10 sprites
0000:2DD9 FF
0000:2DDA C9
```

```
0000:2DDA
                                         ; End of function sub_0_2C8F
0000:2DDA
0000:2DDB
                                                                      SUBROUTINE
0000:2DDB
0000:2DDB
0000:2DDB 3E 0A
0000:2DDD F7
0000:2DDD F7
0000:2DDF 3A 80 63
0000:2DE2 3C
0000:2DE3 A7
                                          sub_0_2DDB:
                                                                                                                                                                   ; CODE XREF: 0000:1995 p
                                                                                            0Ah
                                                                                       a,
30h
                                                                                                                                                                   ; return if level bit not set ; return if mario not allive
                                                                        rst
                                                                        rst
                                                                                       10h
                                                                        ld
                                                                                             (unk_0_6380)
                                                                        inc
and
                                                                                       а
0000:2DE4 1F
0000:2DE5 47
0000:2DE6 3A 27 62
0000:2DE9 FE 02
                                                                        rra
ld
ld
                                                                                      u, a
a, (level_type)
2
                                                                                       b, a
                                                                        cp
jr
inc
0000:2DE9 FE 02
0000:2DEB 20 01
0000:2DED 04
0000:2DEE
                                                                                       nz, loc_0_2DEE
0000:2DEE
                                         loc 0 2DEE:
                                                                                                                                                                  ; CODE XREF: sub 0 2DDB+101i
0000:2DEE 3E FE
0000:2DF0 37
0000:2DF1
                                                                        1d
                                                                                       a, 0FEh ; '■'
                                                                        scf
0000:2DF1
                                         loc 0 2DF1:
                                                                                                                                                                  ; CODE XREF: sub 0 2DDB+18-i
0000:2DF1 1F
0000:2DF2 A7
0000:2DF2 A7
0000:2DF5 47
0000:2DF6 3A 1A
0000:2DF9 A0
0000:2DFA C0
                                                                                       a
loc_0_2DF1
                                                                        djnz
                                                                                       b, a
a, (gen_purpose_timer)
                                                                        1d
                        1A 60
                                                                        ld
                                                                        and
                                                                        ret
                                                                                       nz
0000:2DFB 3E 01
0000:2DFD 32 A0 63
0000:2E00 32 9A 63
0000:2E03 C9
                                                                        ld
ld
ld
                                                                                       a, 1
(unk_0_63A0), a
(unk_0_639A), a
                                                                        ret
0000:2E03
0000:2E03
0000:2E04
                                          ; End of function sub_0_2DDB
                                                                      SUBROUTINE
0000:2E04

0000:2E04

0000:2E04

0000:2E04

0000:2E04 3E 04

0000:2E07 D7

0000:2E07 D7

0000:2E08 DD 21 00 65

0000:2E0C FD 21 80 69

0000:2E10 06 0A

0000:2E12
0000:2E04
                                          sub 0 2E04:
                                                                                                                                                                   ; CODE XREF: 0000:198F1p
                                                                                       a, 4
30h
10h
                                                                        ld
                                                                                            4
                                                                                                                                                                      return if level bit not set return if mario not alive
                                                                        rst
rst
                                                                        ld
                                                                                       ix, unk 0 6500
                                                                                       iy, soft_sprite_ram+80h
b, 0Ah
                                                                        14
0000:2E12
0000:2E12 DD 7E 00
0000:2E15 OF
0000:2E16 D2 A7 2E
                                                                                                                                                                   ; CODE XREF: sub 0 2E04+7D-j
                                          loc 0 2E12:
                                                                        ld
                                                                                       a, (ix+0)
                                                                                                                                                                   ; any active springs?
                                                                        rrca
                                                                                       nc, loc_0_2EA7
                                                                                                                                                                   ; no, skip
                                                                        jp
ld
0000:2E19 3A 1A 60
0000:2E1C E6 0F
0000:2E1E C2 29 2E
0000:2E21 FD 7E 01
                                                                                       a, (gen_purpose_timer)
0Fh
                                                                        and
                                                                                      orn
nz, loc_0_2E29
a, (iy+1)
                                                                        jp
ld
                                                                                                                                                                  ; animate spring sprites
0000:2E24 EE 07
0000:2E26 FD 77 01
0000:2E29
                                                                        xor
ld
                                                                                       (iy+1), a
                                         loc 0 2E29:
                                                                                                                                                                  ; CODE XREF: sub 0 2E04+1A1 j
 0000:2E29
0000:2E29 DD 7E 0D
                                                                                       a, (ix+0Dh)
                                                                        ld
0000:2E29 DD 7E 0D
0000:2E2C FE 04
0000:2E2E CA 84 2E
0000:2E31 DD 34 03
0000:2E34 DD 34 03
0000:2E37 DD 6E 0E
0000:2E3A DD 66 0F
                                                                        ср
                                                                                       z, loc_0_2E84
                                                                        jp
inc
                                                                                      (ix+3)
(ix+3)
1, (ix+0Eh)
h, (ix+0Fh)
a, (h1)
                                                                        ld
ld
0000:2E3D 7E
0000:2E3E 4F
                                                                        ld
                                                                        ld
cp
0000:2E3E 4F
0000:2E3F FE 7F
0000:2E41 CA 9C 2E
                                                                                       z, loc_0_2E9C
                                                                        jp
inc
0000:2E44 23
0000:2E45 DD 86 05
0000:2E48 DD 77 05
0000:2E4B
                                                                                       hĺ
                                                                                            (ix+5)
                                                                        add
                                                                                       a, (1.
(ix+5), a
                                                                        ld
0000:2E4B
                                         loc_0_2E4B:
                                                                                                                                                                  ; CODE XREF: sub_0_2E04+A0 | j
0000:2E4B DD 75 0E
0000:2E4E DD 74 0F
0000:2E51 DD 7E 03
0000:2E54 FE B7
0000:2E56 DA 6C 2E
0000:2E59 79
                                                                                       (ix+0Eh), l
(ix+0Fh), h
                                                                        ld
ld
                                                                                       a, (ix+3)
0B7h; 'À'
                                                                        ld
                                                                        cp
jp
ld
                                                                                       c, loc_0_2E6C
                                                                                       7Fh ; ' '
0000:2E5A FE 7F
                                                                        cp
jp
ld
0000:2E5A FE 7F

0000:2E5C C2 6C 2E

0000:2E5F DD 36 0D 04

0000:2E63 AF

0000:2E64 32 83 60

0000:2E67 3E 03

0000:2E69 32 84 60

0000:2E6C
                                                                                       nz, loc_0_2E6C
(ix+0Dh), 4
                                                                        xor
ld
                                                                                       a
(digital_snd_tmrs+3), a
                                                                        ld
ld
                                                                                       (digital_snd_tmrs+4), a
0000:2E6C
                                         loc 0 2E6C:
                                                                                                                                                                  ; CODE XREF: sub_0_2E04+52<sup>†</sup> j ; sub_0_2E04+58<sup>†</sup> j ...
0000:2E6C DD 7E 03
0000:2E6C
0000:2E6F FD 77 00
                                                                                      a, (ix+3)
(iy+0), a
a, (ix+5)
(iy+3), a
                                                                        ld
                                                                                                                                                                   ; x corrd to sprite data
                                                                        ld
0000:2E72 DD 7E 05
0000:2E75 FD 77 03
0000:2E78
0000:2E78
                                                                        1d
                                                                                                                                                                   ; y coord to sprite data
                                                                                                                                                                   ; CODE XREF: sub 0 2E04+A7-i
                                          loc 0 2E78:
0000:2E78 11 10 00 0000:2E78 0000:2E7B DD 19
                                                                                                                                                                   ; sub_0_2E04+CD|; 16 bytes/sprite; next spring data
                                                                                       de, 10h
                                                                        add
1d
                                                                                       ix, de e, 4
0000:2E7B DD 19
0000:2E7D 1E 04
0000:2E7F FD 19
0000:2E81 10 8F
0000:2E83 C9
0000:2E84
                                                                        add
djnz
                                                                                       iy, de
loc_0_2E12
                                                                                                                                                                   ; next sprite data
                                                                        ret
0000:2E84
0000:2E84
                                                                                                                                                                  ; CODE XREF: sub_0_2E04+2A1j
                                          loc_0_2E84:
0000:2E84 3E 03
                                                                                       a, 3
a, (ix+5)
(ix+5), a
0F8h; '°'
                                                                        ld
0000:2E86 DD 86 05
0000:2E89 DD 77 05
0000:2E8C FE F8
                                                                        add
                                                                        ld
                                                                        ср
0000:2E8E DA 6C 2E
0000:2E91 DD 36 03 00
                                                                                           loc 0 2E6C
```

```
0000:2E95 DD 36 00 00
                                                                                                           (ix+0), 0
loc_0_2E6C
                                                                                         ld
 0000:2E99 C3 6C 2E
                                                                                         jр
 0000:2E9C
                                                    loc_0_2E9C:
                                                                                                                                                                                                        ; CODE XREF: sub_0_2E04+3D|j
 0000:2E9C 21 AA 39
0000:2E9F 3E 03
0000:2EA1 32 83 60
0000:2EA4 C3 4B 2E
                                                                                                           hl, bouncing_spring_data
                                                                                        ld
                                                                                         ld
                                                                                                            (digital_snd_tmrs+3), a
                                                                                                           loc_0_2E4B
                                                                                         jр
 0000:2EA7
 0000:2EA7
 0000:2EA7
0000:2EA7
0000:2EA7 3A 96 63
                                                    loc_0_2EA7:
                                                                                                                                                                                                         ; CODE XREF: sub_0_2E04+12 j
                                                                                        ld
                                                                                                          a, (unk_0_6396)
0000:2EA7 3A 96 63

0000:2EAB D2 78 2E

0000:2EAE AF

0000:2EAE AF

0000:2EB2 DD 36 05 50

0000:2EB2 DD 36 00 01

0000:2EBA CD 57 00

0000:2EBD E6 0F
                                                                                        rrca
jp
xor
                                                                                                          nc, loc_0_2E78
                                                                                                           a (unk_0_6396), a
                                                                                         ld
                                                                                                          (ix+5), 50h;
(ix+0Dh), 1
rand
                                                                                         ld
                                                                                         ld
                                                                                        call
                                                                                                           OFh
a, OF8h; '°'
(ix+3), a
(ix+0), 1
                                                                                         and
0000:2EBD E6 0F
0000:2EBT C6 F8
0000:2EC1 DD 77 03
0000:2EC4 DD 36 00 01
0000:2EC8 21 AA 39
0000:2ECB DD 75 0E
0000:2ECB DD 75 0E
0000:2ECB DD 74 0F
0000:2ED1 C3 78 2E
                                                                                         add
ld
                                                                                         ld
                                                                                                           hl, bouncing_spring_data
(ix+0Eh), l
(ix+0Fh), h
                                                                                         ld
                                                                                        ld
ld
                                                                                                                                                                                                        ; end of spring routine
                                                    jp loc_
; End of function sub_0_2E04
                                                                                                            loc 0 2E78
 0000: 2ED1
0000: 2ED1
0000: 2ED4
0000: 2ED4
                                                   ; SUBROUTINE
 0000:2ED4
 0000:2ED4
0000:2ED4
0000:2ED4
0000:2ED4 3E 0B
                                                  sub_0_2ED4:
                                                                                                                                                                                                         ; CODE XREF: 0000:1998 p
                                                                                                           a, 0Bh
30h
10h
                                                                                         ld
0000:2ED4 3E 0B
0000:2ED6 F7
0000:2ED7 D7
0000:2ED8 11 18 6A
0000:2EDF DD 21 80 66
0000:2EDF DD 7E 01
0000:2EE2 0F
0000:2EE3 DA ED 2E
0000:2EE6 11 1C 6A
0000:2EE9 DD 21 90 66
0000:2EED 0000:2ED
                                                                                        rst
rst
ld
                                                                                                                                                                                                        ; return if level bit not set
; return if mario not alive
; hammers in sprite ram
; hammer character data
                                                                                                           de, soft_sprite_ram+118h
                                                                                                           ix, unk_0_6680
a, (ix+1)
                                                                                         1d
                                                                                         1d
                                                                                         rrca
                                                                                                          c, loc_0_2EED
de, soft_sprite_ram+11Ch
ix, unk_0_6690
                                                                                         jp
ld
                                                                                         ld
 0000:2EED
                                                   loc 0 2EED:
                                                                                                                                                                                                        ; CODE XREF: sub 0 2ED4+F1 j
0000:2EED DD 36 0E 00
0000:2EF1 DD 36 0F F0
0000:2EF5 3A 17 62
0000:2EF8 0F
                                                                                                          (ix+0Eh), 0
(ix+0Fh), 0F0h; '-'
a, (unk_0_6217)
                                                                                         14
                                                                                        ld
ld
                                                                                         rrca
0000:2EF8 0F

0000:2EF9 D2 97 2F

0000:2EFC AF

0000:2EFD 32 18 62

0000:2F00 21 89 60

0000:2F03 36 04

0000:2F05 DD 36 09 06

0000:2F09 DD 36 0A 03
                                                                                         jp
xor
ld
                                                                                                           nc, loc_0_2F97
                                                                                                           a
(unk_0_6218),
                                                                                        ld
ld
ld
ld
                                                                                                          hl, unk_0_6089
(hl), 4
(ix+9), 6
(ix+0Ah), 3
0000:2F09 DD 36 0A

0000:2F0D 06 1E

0000:2F0F 3A 07 62

0000:2F12 CB 27

0000:2F14 D2 1B 2F

0000:2F17 F6 80

0000:2F19 CB F8

0000:2F1B
                                                                                        ld
ld
sla
                                                                                                          b, 1Eh
a, (mario_sprite_tile)
                                                                                                           nc, loc_0_2F1B
80h; 'Ç'
                                                                                         jp
or
                                                                                                            7, b
0000:2F1B
0000:2F1B F6 08
0000:2F1D 4F
0000:2F1D 4F
0000:2F12 3A 94 63
0000:2F21 CB 5F
0000:2F23 CA 43 2F
0000:2F26 CB CO
                                                  loc_0_2F1B:
                                                                                                                                                                                                       ; CODE XREF: sub 0 2ED4+401j
                                                                                         ld
ld
                                                                                                           c, a
a, (unk_0_6394)
                                                                                                           3, a
z, loc_0_2F43
0, b
                                                                                         bit
                                                                                         jp
set
                                                                                         set
 0000:2F2A DD 36 09 05
0000:2F2E DD 36 0A 06
0000:2F32 DD 36 0F 00
0000:2F36 DD 36 0E F0
                                                                                         ld
ld
ld
                                                                                                            (ix+9).5
                                                                                                           (ix+0Ah), 6
(ix+0Fh), 0
(ix+0Eh), 0F0h; '-'
                                                                                         ld
0000:2F3A CB 79
0000:2F3C CA 43 2F
0000:2F3F DD 36 0E 10
0000:2F43
                                                                                                          7, c
z, loc_0_2F43
(ix+0Eh), 10h
                                                                                         bit
                                                                                        jp
ld
 0000:2F43
0000:2F43
0000:2F43 79
0000:2F43
                                                                                                                                                                                                        ; CODE XREF: sub_0_2ED4+4F<sup>†</sup>j; sub_0_2ED4+68<sup>†</sup>j
                                                  loc_0_2F43:
                                                                                         ld
 0000:2F44 32 4D 69
                                                                                                           (soft_sprite_ram+4Dh), a
                                                                                         ld
 0000:2F47 0E 07
0000:2F49 21 94 63
                                                                                         ld
ld
                                                                                                           c, 7
hl, unk_0_6394
0000:2F40 21 94 63
0000:2F4D C2 B7 2F
0000:2F50 21 95 63
0000:2F53 34
0000:2F54 7E
                                                                                                          (h1)
nz, loc_0_2FB7
hl, unk_0_6395
                                                                                         inc
                                                                                        jp
ld
inc
ld
                                                                                                            (hl)
                                                                                                          a, (hl)
2
0000:2F54 7E
0000:2F55 FE 02
0000:2F57 C2 BE 2F
0000:2F5A AF
0000:2F5B 32 95 63
0000:2F5E 32 17 62
0000:2F61 DD 77 01
0000:2F64 3A 03 62
0000:2F67 ED 44
                                                                                         cp
jp
                                                                                                           nz, loc_0_2FBE
                                                                                         xor
ld
                                                                                                           a (unk_0_6395), a
                                                                                        ld
ld
ld
                                                                                                          (unk_0_6217), a
(ix+1), a
a, (mario_x)
0000:2F67 ED 44
0000:2F69 DD 77 0E
0000:2F65 3A 07 62
0000:2F6F 32 4D 69
0000:2F72 DD 36 00 00
0000:2F76 3A 89 63
0000:2F76 3A 89 60
0000:2F70
0000:2F70
0000:2F70
                                                                                         nea
                                                                                        ld
ld
ld
                                                                                                           (ix+0Eh), a
a, (mario_sprite_tile)
(soft_sprite_ram+4Dh), a
                                                                                                           (ix+0), 0
a, (unk_0_6389)
(unk_0_6089), a
                                                                                         ld
                                                                                                                                                                                                        ; CODE XREF: sub_0_2ED4+E0|j
; sub_0_2ED4+E7|j ...
                                                   loc 0 2F7C:
 0000:2F7C EB
0000:2F7C EB
0000:2F7C
0000:2F7D 3A 03 62
                                                                                                          de, hl
a, (mario_x)
a, (ix+0Eh)
(hl), a
(ix+3), a
                                                                                                                                                                                                       ; calc hammer X
                                                                                         1d
 0000:2F80 DD 86 0E
0000:2F83 77
0000:2F84 DD 77 03
                                                                                         add
                                                                                        ld
ld
 0000:2F87 23
0000:2F88 70
                                                                                                           h1
                                                                                                            (hl), b
                                                                                         ld
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 21/11/2013, 12:01:24 AM
                                                                                      hl
 0000:2F8A 71
0000:2F8B 23
0000:2F8C 3A 05 62
0000:2F8F DD 86 0F
                                                                        ld
                                                                                       (hl), c
                                                                                     hl
a, (mario_y)
a, (ix+0Fh)
                                                                        inc
ld
add
                                                                                                                                                                  ; calc hammer Y
 0000:2F92 77
0000:2F93 DD 77 05
0000:2F96 C9
0000:2F97
                                                                                      (hl), a
(ix+5), a
                                                                        ld
                                                                        14
 0000:2F97
 0000:2F97
0000:2F97 3A 18 62
0000:2F9A 0F
                                          loc_0_2F97:
                                                                                                                                                                  ; CODE XREF: sub_0_2ED4+25 j
                                                                        ld
                                                                                      a, (unk_0_6218)
rrca
                                                                        ret
ld
ld
                                                                                      nc
(ix+9), 6
(ix+0Ah),
                                                                                      a, (mario_sprite_tile)
                                                                        ld
                                                                        rlca
ld
                                                                                      a, 3Ch; '<'
                                                                        rra
ld
                                                                                      b, a
                                                                                                                                                                  ; hammer tile #
                                                                        ld
ld
                                                                                             (unk_0_6089)
                                                                                      (unk_0_6389), a loc_0_2F7C
                                                                        ld
                                                                        jp
 0000:2FB7
0000:2FB7
0000:2FB7
0000:2FB7 3A 95 63
0000:2FBA A7
0000:2FBB CA 7C 2F
0000:2FBE
                                          loc 0 2FB7:
                                                                                                                                                                  ; CODE XREF: sub 0 2ED4+791j
                                                                                      a, (unk_0_6395)
                                                                        14
                                                                                       a
z, loc_0_2F7C
                                                                        jр
0000:2FBE
0000:2FBE 3A 1A 60
0000:2FC1 CB 5F
0000:2FC3 CA 7C 2F
0000:2FC6 0E 01
0000:2FC6 02 7C 2F
0000:2FC8 03 7C 2F
                                          loc_0_2FBE:
                                                                                                                                                                  ; CODE XREF: sub 0 2ED4+831 j
                                                                                      a, (gen_purpose_timer)
3, a
z, loc_0_2F7C
                                                                        ld
                                                                        bit
                                                                        jp
ld
                                                                                       loc_0_2F7C
                                                                        jp
                                          ; End of function sub_0_2ED4
0000:2FC8

0000:2FCB

0000:2FCB

0000:2FCB

0000:2FCB

0000:2FCB

0000:2FCB 3E 0E

0000:2FCB 77

0000:2FCD 135

0000:2FD1 35

0000:2FD2 CO

0000:2FD3 3E 03

0000:2FD5 32 B9 62

0000:2FD8 32 96 63

0000:2FD8 11 01 05

0000:2FDE 11 01 05

0000:2FDE CD 9F 30
                                                                      SUBROUTINE
                                          sub_0_2FCB:
                                                                                                                                                                  ; CODE XREF: 0000:19BF1p
                                                                        ld
                                                                                      a, 0Eh
30h
                                                                                      hl, unk_0_62B4 (hl)
                                                                        rst
ld
dec
ret
                                                                                                                                                                  ; return if level bit not set
                                                                                      nz
a, 3
                                                                        ld
                                                                                      (unk_0_62B9), a
(unk_0_6396), a
de, 501h
                                                                        ld
ld
                                                                        ld
0000:2FDE CD 9F 30
0000:2FE1 3A B3 62
0000:2FE4 77
0000:2FE5 21 B1 62
                                                                        call
ld
ld
ld
                                                                                      sub 0 309F
                                                                                      a, (unk_0_62B3)
(hl), a
hl, unk_0_62B1
0000:2FES 21
0000:2FE8 35
0000:2FE9 C0
0000:2FEA 3E
0000:2FEC 32
0000:2FEF C9
                                                                        dec
                                                                                       (hl)
                                                                        ret
ld
                        01
86 63
                                                                                       (unk_0_6386), a
                                                                        ld
                                                                        ret
 0000:2FEF
0000:2FEF
0000:2FF0
                                          ; End of function sub_0_2FCB
                                                                      SUBROUTINE
 0000:2FF0
 0000:2FF0
0000:2FF0
0000:2FF0
                                                                                                                                                                  ; CODE XREF: sub_0_DA7+10^{\dagger}p ; sub_0_DA7+3D^{\dagger}p ... ; byte2
 0000:2FF0
                                         sub_0_2FF0:
 0000:2FF0 7D
0000:2FF0
0000:2FF1 0F
                                                                                      a, 1
                                                                        rrca
0000:2FF1 0F
0000:2FF2 0F
0000:2FF3 0F
0000:2FF4 E6 1F
0000:2FF6 6F
0000:2FF7 7C
0000:2FF8 2F
0000:2FF9 E6 F8
                                                                        rrca
rrca
                                                                                                                                                                  ; byte2/8
                                                                        and
ld
                                                                                                                                                                  ; L=byte2/8
                                                                                      1. a
                                                                        1d
                                                                                      a, h
                                                                                                                                                                  ; bytel
                                                                        cpl
                                                                                      0F8h ;
                                                                        and
ld
                                                                                      e, a
 0000:2FFB SF
0000:2FFC AF
0000:2FFD 67
0000:2FFE CB 13
0000:3000 17
                                                                        xor
ld
                                                                                      h, a
                                                                        rl
                                                                        rla
0000:3000 17
0000:3001 CB 13
0000:3003 17
0000:3004 C6 74
0000:3006 57
0000:3007 19
0000:3008 C9
0000:3008
                                                                        rl
rla
                                                                                      a, 74h; 't'
d, a
                                                                                                                                                                  ; start of video RAM
                                                                        add
ld
                                                                        add
                                                                                      hl, de
                                                                                                                                                                  ; HL = screen address
                                                                        ret
                                         ; End of function sub_0_2FF0
 0000:3008
0000:3009
0000:3009
0000:3009
                                                                    SUBROUTINE
 0000:3009
0000:3009
0000:3009
57
                                                                                                                                                                  ; CODE XREF: 0000:18DF\p; sub_0_1AC3+1DB\p ...
                                          sub_0_3009:
 0000:3009
                                                                        1d
                                                                                      d. a
0000:3009
0000:300A OF
0000:300B DA 22 30
0000:3010 OF
0000:3011 OF
0000:3011 OF
0000:3015 OE 6C
0000:3017
                                                                        rrca
jp
ld
                                                                                      c, loc_0_3022
c, 93h; 'ô'
                                                                        rrca
                                                                        rrca
                                                                                      nc, loc_0_3017
                                                                        jp
ld
                                                                                      c, 6Ch; '1'
                                          loc_0_3017:
                                                                                                                                                                 ; CODE XREF: sub_0_3009+91j
```

rlca

c, loc\_0\_3031

OFOh ; '-'

loc 0 3031

jp ld and ld

jр

0000:3018 DA 31 30

0000:301E 4F

0000:301B 79 0000:301C E6 F0 0000:301E 4F

0000:3022

```
; CODE XREF: sub 0 3009+21i
                                        loc 0 3022:
                                                                      1d
                                                                                    c, 0B4h ; '-'
                                                                      rrca
                                                                                    nc, loc_0_302B
                                                                      jp
ld
                                                                                          1Eh
                                         loc_0_302B:
                                                                                                                                                              ; CODE XREF: sub_0_3009+1Dfj
0000:302B CB 50
                                                                      bit
                                                                                     2, b
0000:302D CA 31 30
0000:3030 05
0000:3031
                                                                      jp
dec
                                                                                    z, loc_0_3031
b
0000:3031
0000:3031
0000:3031
0000:3031
0000:3033
0000:3033
0000:3033
4F
0000:3035
E6 03
0000:3037
B8
                                                                                                                                                              ; CODE XREF: sub_0_3009+F<sup>†</sup>j
; sub_0_3009+16<sup>†</sup>j ...
                                        loc_0_3031:
                                                                      ld
                                                                                    a, c
                                                                      rrca
                                                                      rrca
ld
                                                                      and
                                                                      cp
jp
ld
                                                                                    b
0000:3037 B8
0000:3038 C2 31 30
0000:303B 79
0000:303C 0F
                                                                                     nz, loc_0_3031
                                                                      rrca
0000:303D OF
                                                                      rrca
0000:303D 0F
0000:303E E6 03
0000:3040 FE 03
0000:3042 C0
0000:3043 CB 92
0000:3045 15
0000:3047 3E 04
0000:3047 G9
0000:3049
0000:3049
0000:3049
                                                                      and
cp
                                                                                    nz
2, d
d
nz
                                                                      ret
                                                                      res
dec
ret
                                                                                    a, 4
                                                                      ld
                                        ret; End of function sub_0_3009
0000:304A
0000:304A
0000:304A
                                         ; SUBROUTINE
0000:304A
0000:304A
0000:304A
0000:304A
0000:305A
0000:3050
4F
0000:3050
0000:3051
06
00
0000:3056
0D
064
0000:3056
0D
64
0000:3056
0D
64
00
0000:3057
21
8E
63
0000:3063
0000:3063
0000:3064
0000:3064
0000:3064
0000:3064
                                                                                                                                                              ; CODE XREF: 0000:0AF0<sup>p</sup>; 0000:0B38<sup>p</sup>
                                         sub 0 304A:
0000:304A
                                                                                    de, OFFEOh
                                                                                   a, (unk_0_638E)
c, a
b, 0
hl, VRAM_start+200h
                                                                      ld
ld
                                                                      ld
ld
                                                                                    sub_0_3064
hl, VRAM_start+1C0h
sub_0_3064
                                                                      call
ld
                                                                      call
ld
                                                                                    hl, unk_0_638E
(hl)
                                                                      dec
                                                                      ret
                                         ; End of function sub_0_304A
                                         ; SUBROUTINE
0000:3064
0000:3064
0000:3064
0000:3065
0000:3065
0000:3066
19
0000:3068
0000:3068
0000:3068
0000:3069
0000:3069
                                         sub_0_3064:
                                                                                                                                                               ; CODE XREF: sub_0_304A+C^p; sub_0_304A+12^p
                                                                      add
                                                                                    hl, bc
                                                                                    a, (hl)
hl, de
                                                                      ld
                                                                      add
                                                                      ld
ret
                                                                                     (hl), a
                                         ; End of function sub_0_3064
0000:3069
                                         loc_0_3069:
                                                                                                                                                               ; DATA XREF: 0000:0A80 o
0000:3069 DF
0000:3069 DF
0000:3069 2A CO 63
0000:306D 34
0000:306E C9
0000:306F
                                                                                                                                                               ; 0000:0A841o
                                                                                                                                                                  wait for 8-bit countdown
                                                                      ld
                                                                                    hl, (unk_0_63C0)
                                                                                     (h1)
                                                                      inc
                                                                      ret
                                                           SUBROUTINE
0000:306F
0000:306F
0000:306F
0000:306F 21 AF 62
                                        sub_0_306F:
                                                                                                                                                                 CODE XREF: 0000:0AE81p
                                                                                                                                                               ; 0000:1732<sup>p</sup> ...
0000:306F
0000:3072 34
0000:3073 7E
                                                                     ld
inc
ld
                                                                                    hl, unk_0_62AF
                                                                                   a, (hl)
0000:3074 E6 07
                                                                      and
0000:3076 C0
0000:3077 21 0B 69
0000:307A 0E FC
0000:307C FF
                                                                      ret
ld
ld
                                                                                    nz
hl, soft_sprite_ram+0Bh
                                                                                                                                                             ; sprite #2, x coord
                                                                                     c, 0FCh; 38h
                                                                      rst
ld
ld
0000:307C FF
0000:307D 0E 81
0000:307F 21 09 69
0000:3082 CD 96 30
0000:3082 CD 96 30
0000:3088 CD 96 30
0000:3088 CD 57 00
0000:308E E6 80
                                                                                    c, 81h; 'ü'
hl, soft_sprite_ram+9
sub_0_3096
                                                                                                                                                              ; sprite #2, flipy & code
                                                                      call
                                                                                    hl, soft_sprite_ram+1Dh sub_0_3096
                                                                      1d
                                                                      call
                                                                                    sab_c_sob
rand
80h ; 'C'
hl, soft_sprite_ram+2Dh
(hl)
(hl), a
                                                                      and
UUUU:308E E6 80
0000:3090 21 2D 69
0000:3093 AE
0000:3095 C9
0000:3095 C9
0000:3095
0000:3096
                                                                      ld
                                                                      xor
ld
                                                                      ret
                                        ; End of function sub_0_306F
                                                                    SUBROUTINE
0000:3096
0000:3096
0000:3096
                                                                                                                                                              ; CODE XREF: sub_0_306F+13<sup>p</sup>; sub_0_306F+19<sup>p</sup>
                                        sub 0 3096:
0000:3096 06 02
0000:3096
0000:3098
                                                                      ld
                                                                                    b, 2
                                        loc_0_3098:
                                                                                                                                                             ; CODE XREF: sub 0 3096+6-1
0000:3098
0000:3098 79
0000:3099 AE
0000:309A 77
0000:309B 19
                                                                      ld
                                                                                     a, c
                                                                      xor
                                                                                     (hl), a
hl, de
                                                                      ld
                                                                                    hl, de
loc_0_3098
                                                                      add
0000:309C 10 FA
```

```
0000:309F
0000:309F
0000:309F
0000:309F E5
                                                                                                                                                        ; CODE XREF: sub_0_17B+3B\p; 0000:01F7\p ...
                                       sub_0_309F:
 0000:309F
0000:309F
0000:30A0 21 C0 60
0000:30A3 3A B0 60
0000:30A6 6F
                                                                   push
ld
ld
ld
                                                                                 hl, unk_0_60C0
a, (unk_0_60B0)
l, a
UUUU:30A6 6F
0000:30A7 CB 7E
0000:30A9 CA BB 30
0000:30AC 72
0000:30AD 2C
                                                                   bit
                                                                                  7, (hl)
z. loc
                                                                   jp
ld
                                                                                  z, loc_0_30BB (hl), d
                                                                   inc
 0000:30AE
0000:30AF
0000:30B0
                                                                   ld
inc
ld
                                                                                  (hl), e
                                                                                 a, 1
0C0h; 'L'
 0000:30B1 FE C0
0000:30B3 D2 B8 30
0000:30B6 3E C0
0000:30B8
                                                                   cp
jp
ld
                                                                                 nc, loc_0_30B8
a, 0C0h; L
 0000:30B8
                                       loc_0_30B8:
                                                                                                                                                       ; CODE XREF: sub 0 309F+141i
0000:30B8
0000:30BB 32 B0 60
0000:30BB
0000:30BB E1
0000:30BC C9
0000:30BC
                                                                   ld
                                                                                 (unk_0_60B0), a
                                                                                                                                                        ; CODE XREF: sub 0 309F+A 1 j
                                       loc_0_30BB:
                                                                   pop
                                                                                 h1
                                       ; End of function sub_0_309F
 0000:30BD
0000:30BD
0000:30BD
                                                                 SUBROUTINE
 0000:30BD
 0000:30BD
0000:30BD
0000:30BD 21 50 69
0000:30BD
                                                                                                                                                        ; CODE XREF: 0000:12A3\p; 0000:1615\p
                                        sub_0_30BD:
                                                                   ld
                                                                                 hl, soft_sprite_ram+50h
0000:30BD
0000:30C0 06 02
0000:30C2 CD E4 30
0000:30C5 2E 80
0000:30C7 06 0A
0000:30C9 CD E4 30
                                                                                 b, 2
sub_0_30E4
1, 80h; '(
                                                                   ld
                                                                   call
ld
                                                                   ld
0000:30C9 CD E4 30
0000:30CC ZE B8
0000:30CE 06 0B
0000:30D3 CD E4 30
0000:30D3 21 0C 65
0000:30D6 06 05
0000:30D8 C3 E4 30
0000:30D8
0000:30DB
0000:30DB
                                                                   call
                                                                                 sub_0_30E4
                                                                   ld
ld
                                                                                 sub_0_30E4
hl, soft_sprite_ram+10Ch
b. 5
                                                                   call
                                                                   ld
                                                                   ld
                                                                                 sub_0_30E4
                                                                   jр
                                        ; End of function sub 0 30BD
                                                                SUBROUTINE
 0000:30DB
 0000:30DB
0000:30DB
0000:30DB
0000:30DB 21 4C 69
                                       sub_0_30DB:
                                                                                                                                                        ; CODE XREF: 0000:12DF^p
                                                                   ld
                                                                                 hl, soft_sprite_ram+4Ch
0000:30DE 21 4C
0000:30DE 36 00
0000:30E0 2E 58
0000:30E2 06 06
0000:30E2
                                                                   ld
ld
ld
                                                                                 (h1), 0
1, 58h; 'X'
b, 6
                                        ; End of function sub 0 30DB
 0000:30E4
                                                                 SUBROUTINE
0000:30E4
0000:30E4
0000:30E4
0000:30E4
0000:30E4
0000:30E4
0000:30E5
0000:30E5
0000:30E5
0000:30E7
0000:30E9
0000:30E9
0000:30E0
0000:30EC
0000:30EC
0000:30ED
                                                                                                                                                        ; CODE XREF: sub_0_30BD+5\p ; sub_0_30BD+C\p ...
                                       sub_0_30E4:
                                                                   ld
                                                                                 a, 1
                                                                                                                                                        ; CODE XREF: sub_0_30E4+6|j
                                        loc_0_30E5:
                                                                   1d
                                                                                 (hl), 0
                                                                   add
                                                                   ld
                                                                   djnz
                                                                                 loc_0_30E5
                                                                   ret
                                        ; End of function sub_0_30E4
                                                                  SUBROUTINE
 0000:30ED
 0000:30ED
0000:30ED
0000:30ED
                                                                                                                                                        ; CODE XREF: 0000:198C1p
                                       sub 0 30ED:
0000:30ED CD FA 30 0000:30FD CD FA 30 10000:30F3 CD B1 31 0000:30F5 CD F3 34 0000:30F9 C9 0000:30F9 0000:30F9 0000:30FA 0000:30FA 0000:30FA
                                                                   call
                                                                                 sub 0 30FA
                                                                   call
call
                                                                                 sub_0_313C
sub_0_31B1
                                                                                                                                                        ; spawn fireballs?
; process fireball AI?
                                                                                                                                                        ; add fireballs to sprite display
                                                                   call
                                                                                 sub 0 34F3
                                                                   ret
                                        ; End of function sub_0_30ED
 0000:30FA
0000:30FA
0000:30FA
0000:30FA
                                                                 SUBROUTINE
sub 0 30FA:
                                                                                                                                                        ; CODE XREF: sub 0 30ED p
                                                                                 a, (unk_0_6380)
                                                                   1d
                                                                   ср
                                                                                 c, loc_0_3103
                                                                   jr
ld
                                                                                                                                                        ; CODE XREF: sub_0_30FA+5^j; go!
                                        loc_0_3103:
                                                                   rst
                                                                   .dw loc_0_3110 .dw loc_0_3110
                                                                                                                                                        ; Jump table
                                                                    .dw loc_0_311B
.dw loc_0_3126
                                                                    .dw loc_0_3126
.dw loc_0_3131
 0000:3110
 0000:3110
0000:3110
0000:3110 3A 1A 60
                                       loc_0_3110:
                                                                                                                                                        ; DATA XREF: sub_0_30FA+A\uparrow o; sub_0_30FA+C\uparrow o
                                                                                 a, (gen_purpose_timer)
                                                                   1d
 0000:3113 E6 01
                                                                   and
```

SUBROUTINE

sub\_0\_31DD

hl, unk\_0\_63A2), a hl, unk\_0\_63E0 (unk\_0\_63C8), hl

call

xor ld ld

1d

; CODE XREF: sub\_0\_30ED+61p

sub\_0\_31B1:

0000:31B1

0000:31B1 0000:31B1 0000:31B1

0000:31BE

0000:31B1 CD DD 31

0000:31B4 AF 0000:31B5 32 A2 63 0000:31B8 21 E0 63

0000:31BB 22 C8 63

```
loc_0_31BE:
                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_31B1+28|j
 0000:31BE 2A C8 63
                                                                                                                                     hl, (unk_0_63C8)
 0000:31BE 2A C8 63
0000:31C1 01 20 00
0000:31C4 09
0000:31C5 22 C8 63
0000:31C8 7E
0000:31C9 A7
0000:31CA CA DO 31
0000:31CD CD 02 32
                                                                                                                                     bc, 20h; 'hl, bc (unk_0_63C8), hl
                                                                                                               ld
                                                                                                               add
ld
                                                                                                               1d
                                                                                                                                     a, (hl)
                                                                                                                and
                                                                                                                                     a
z, loc_0_31D0
sub_0_3202
                                                                                                              jp
call
 0000:31D0
 0000:31D0
0000:31D0 3A A2 63
0000:31D3 3C
0000:31D4 3C A2 63
0000:31D7 FE 05
0000:31D7 C2 BE 31
0000:31DC C9
                                                                 loc_0_31D0:
                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_31B1+19 j
                                                                                                               ld
                                                                                                                                     a, (unk_0_63A2)
                                                                                                               inc
                                                                                                               1d
                                                                                                                                       (unk_0_63A2), a
                                                                                                               ср
                                                                                                                                     nz, loc_0_31BE
                                                                                                               jр
                                                                                                               ret
 0000:31DC
0000:31DC
0000:31DD
                                                                 ; End of function sub_0_31B1
                                                                                                            SUBROUTINE
 0000:31DD
 0000:31DD
0000:31DD
0000:31DD
0000:31DD 3A 80 63 0000:31ED FE 03 0000:31ED F8 0000:31EB F8 0000:31EB FE 01 0000:31EB C0 0000:31EB C0 0000:31EC 3E 02 0000:31EC 77 0000:31EC 90000:31EC 0000:31EC 0000:31EC 0000:31EC 00000:31EC 0000:31EC 00
                                                                 sub 0 31DD:
                                                                                                                                                                                                                                                         ; CODE XREF: sub 0 31B1 p
                                                                                                               ld
                                                                                                                                     a, (unk_0_6380)
                                                                                                               cp
ret
                                                                                                                                     sub_0_31F6
                                                                                                               call
                                                                                                               cp
ret
ld
ld
                                                                                                                                     hl, unk_0_6439
a, 2
                                                                                                               ld
ld
ld
                                                                                                                                       (h1).
                                                                                                                                     hl, unk_0_6479
                                                                                                                                      (hl), a
                                                                                                               ld
                                                                 ret
; End of function sub_0_31DD
 0000:31F6
 0000:31F6
0000:31F6
0000:31F6
                                                                                                           SUBROUTINE
                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_31DD+61p
0000:31F6
0000:31F9 3A 18 60
0000:31F9 E6 03
0000:31FB FE 01
0000:31FD C0
0000:31FE 3A 1A 60
0000:3201 C9
0000:3201
0000:3201
0000:3202
0000:3202
0000:3202
 0000:31F6
                                                                 sub_0_31F6:
                                                                                                                                     a, (random_no)
3
                                                                                                              ld
and
                                                                                                               ср
                                                                                                               ret
                                                                                                                                     nz
                                                                                                               ld
                                                                                                                                     a, (gen_purpose_timer)
                                                                                                               ret
                                                                 ; End of function sub_0_31F6
                                                                                           SUBROUTINE
 0000:3202
 0000:3202
0000:3202
 0000:3202
0000:3202 DD 2A C8 63
                                                                 sub_0_3202:
                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_31B1+1C\daggerp
                                                                                                                                     ix, (unk_0_63C8)
                                                                                                               ld
 0000:3202 DD 2A C8
0000:3209 FE 01
0000:320B CA 7A 32
0000:320E DD 7E 0D
0000:3211 FE 04
0000:3213 F2 30 32
0000:3216 DD 7E 19
                                                                                                                                      a, (ix+18h)
                                                                                                               ld
                                                                                                               cp
jp
ld
                                                                                                                                       z, loc_0_327A
                                                                                                                                     a, (ix+0Dh)
4
                                                                                                               cp
jp
ld
                                                                                                                                     p, loc_0_3230
a, (ix+19h)
 0000:3219 FE 02
0000:321B CA 7E 32
0000:321E CD 0F 33
0000:3221 3A 18 60
                                                                                                              cp
jp
call
                                                                                                                                       z, loc_0_327E
                                                                                                                                     2, 10C_U_32/E
sub_0_330F
a, (random_no)
 0000:3224 E6 03
                                                                                                               and
 0000:3224 E0 03
0000:3226 C2 33 32
0000:3229
0000:3229
                                                                                                               jр
                                                                                                                                     nz, loc_0_3233
                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_3202+7F|j
                                                                 loc_0_3229:
 0000:3229 DD 7E 0D
0000:322C A7
0000:322D CA 57 32
0000:3230
                                                                                                               1d
                                                                                                                                     a, (ix+0Dh)
                                                                                                                and
                                                                                                                                     z, loc_0_3257
                                                                                                              jр
 0000:3230
                                                                loc_0_3230:
                                                                                                                                                                                                                                                         ; CODE XREF: sub 0 3202+111 j
 0000:3230 CD 3D 33
0000:3233
                                                                                                               call
                                                                                                                                     sub_0_333D
 0000:3233
0000:3233 DD 7E 0D
0000:3236 FE 04
0000:3238 F2 91 32
                                                                                                                                                                                                                                                         ; CODE XREF: sub 0 3202+241 i
                                                                loc 0 3233:
                                                                                                                                      a, (ix+0Dh)
                                                                                                               ld
                                                                                                               ср
                                                                                                                                     p, loc_0_3291
                                                                                                               qŗ
0000:3238 F2 91 32

0000:323B CD AD 33

0000:323E CD 8C 29

0000:3241 FE 01

0000:3243 CA 97 32

0000:3246 DD 2A C8 63

0000:324A DD 7E 0E

0000:324F DA 8C 32

0000:324F DA 8C 32
                                                                                                                                     sub_0_33AD
sub_0_298C
                                                                                                               call
                                                                                                               call
cp
                                                                                                                                      z, loc_0_3297
ix, (unk_0_63C8)
a, (ix+0Eh)
                                                                                                               jp
ld
                                                                                                               ld
cp
                                                                                                                                     a, (ix+0Eh)
10h
c, loc_0_328C
0F0h; '-'
                                                                                                               jр
 0000:3252 FE F0
0000:3254 D2 84 32
0000:3257
                                                                                                                                      nc, loc_0_3284
                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_3202+2B<sup>†</sup> j
 0000:3257
                                                                 loc 0 3257:
 0000:3257 DD 7E 13
0000:3257
0000:325A FE 00
                                                                                                                                                                                                                                                          ; sub_0_3202+87|j ...
                                                                                                                                     a, (ix+13h)
                                                                                                               ld
                                                                                                                                     nz, loc_0_32B9
a, llh
                                                                                                               ср
 0000:325C C2 B9 32
0000:325F 3E 11
0000:3261
0000:3261
                                                                                                              jp
ld
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_3202+B8|j
                                                                 loc 0 3261:
 0000:3261 DD 77 13
                                                                                                               ld
                                                                                                                                       (ix+13h), a
 0000:3264 16 00
0000:3266 5F
0000:3267 21 7A 3A
0000:326A 19
                                                                                                               ld
ld
                                                                                                                                     d, 0
e, a
hl, fireball_bouncing_data
                                                                                                               ld
                                                                                                               add
ld
ld
                                                                                                                                     hl, de
a, (hl)
b, (ix+0Eh)
 0000:326B 7E
0000:326C DD 46 0E
0000:326F DD 70 03
                                                                                                                                     (ix+3), b
c, (ix+0Fh)
                                                                                                               ld
ld
 0000:3272 DD 4E 0F
0000:3275 81
0000:3276 DD 77 05
                                                                                                                                      a, c
(ix+5), a
                                                                                                               ld
 0000:3279 C9
                                                                                                               ret
 0000:327A
```

```
0000:327A
                                                                                                                                                  ; CODE XREF: sub 0 3202+91i
0000:327A
                                     loc 0 327A:
0000:327A CD BD 32
0000:327D C9
0000:327E
                                                                call
ret
                                                                              sub_0_32BD
0000:327E
 0000:3275
                                      loc_0_327E:
                                                                                                                                                  ; CODE XREF: sub_0_3202+19 j
0000:327E CD D6 32
0000:3281 C3 29 32
                                                                              sub_0_32D6
loc_0_3229
                                                                 call
                                                                 qį
0000:3284
 0000:3284
0000:3284
0000:3284 3E 02
                                                                                                                                                  ; CODE XREF: sub_0_3202+52<sup>†</sup> j
                                     loc_0_3284:
                                                                ld
                                                                              a, 2
0000:3286
0000:3286
0000:3286 DD 77 0D
0000:3289 C3 57 32
                                      loc_0_3286:
                                                                                                                                                  ; CODE XREF: sub_0_3202+8C | j
                                                                 ld
                                                                              المون), a
10c_0_3257
                                                                 jр
0000:328C
0000:328C
0000:328C
                                      loc_0_328C:
                                                                                                                                                  ; CODE XREF: sub_0_3202+4Dfj
0000:328C 3E 01
0000:328E C3 86 32
0000:3291
0000:3291
                                                                 ld
                                                                              loc 0 3286
                                                                                                                                                  ; CODE XREF: sub_0_3202+36 j
0000:3291
                                     loc_0_3291:
0000:3291 CD E7 33
0000:3294 C3 57 32
0000:3297
                                                                              sub_0_33E7
loc_0_3257
                                                                 call
                                                                 jр
 0000:3297
0000:3297
0000:3297
0000:3297 DD 2A C8 63
0000:329B DD 7E 0D
                                     loc_0_3297:
                                                                                                                                                  ; CODE XREF: sub_0_3202+41 j
                                                                              ix, (unk_0_63C8)
a, (ix+0Dh)
                                                                ld
ld
0000:3298 DD 7E 0D
0000:329E FE 01
0000:32A0 C2 B1 32
0000:32A3 3E 02
0000:32A5 DD 35 0E
0000:32A8
0000:32A8 DD 77 0D
                                                                 cp
jp
ld
                                                                              nz, loc_0_32B1
                                                                              (ix+0Eh)
                                                                 dec
                                      loc_0_32A8:
                                                                                                                                                  ; CODE XREF: sub_0_3202+B4|-j
                                                                 ld
                                                                              (ix+<mark>0Dh</mark>)
0000:32AB CD C3 33
0000:32AE C3 57 32
0000:32B1
0000:32B1
                                                                 call
                                                                              sub_0_33C3
loc_0_3257
0000:32B1
0000:32B1 3E 01
0000:32B1 3E 01
0000:32B3 DD 34 0E
0000:32B6 C3 A8 32
0000:32B9
0000:32B9
0000:32B9
                                                                                                                                                  ; CODE XREF: sub 0 3202+9E1i
                                     loc_0_32B1:
                                                                              a, 1
(ix+0Eh)
                                                                 qŗ
                                                                              loc_0_32A8
                                      loc_0_32B9:
                                                                                                                                                  ; CODE XREF: sub_0_3202+5A j
                                                                dec
0000:32B9 3D
0000:32BA C3 61 32
0000:32BA
0000:32BA
                                     jp loc_
; End of function sub_0_3202
                                                                              loc_0_3261
0000:32BD
0000:32BD
0000:32BD
0000:32BD
                                                   SUBROUTINE
0000:32BD

0000:32BD 3A 27 62

0000:32CD FE 01

0000:32C2 CA CE 32

0000:32C5 FE 02

0000:32C5 CA D2 32

0000:32CA CD B9 34

0000:32CB C9
                                     sub_0_32BD:
                                                                                                                                                  ; CODE XREF: sub_0_3202+78 p
                                                                              a, (level_type)
1
                                                                ld
cp
                                                                jp
cp
jp
call
                                                                              z, loc_0_32CE
                                                                             z, loc_0_32D2
sub_0_34B9
                                                                 ret
0000:32CE
0000:32CE
0000:32CE
0000:32CE CD 2C 34
0000:32D1 C9
0000:32D2
0000:32D2
                                      loc_0_32CE:
                                                                                                                                                  ; CODE XREF: sub_0_32BD+5<sup>†</sup>j
                                                                 call
                                                                             sub_0_342C
0000:32D2
0000:32D2 CD 78 34
0000:32D5 C9
0000:32D5
                                     loc_0_32D2:
                                                                                                                                                  ; CODE XREF: sub_0_32BD+A1j
                                                                 call
                                                                              sub_0_3478
                                     ret ; End of function sub_0_32BD
0000:32D5
0000:32D6
0000:32D6
                                                             SUBROUTINE ...
0000:32D6
0000:32D6
0000:32D6
0000:32D6 DD 7E 1C
0000:32D9 FE 00
0000:32D9 DD 7E 1D
0000:32D8 DD 7E 1D
0000:32E1 FE 01
0000:32E3 C2 0B 33
0000:32E6 DD 36 1D 00
0000:32EA 3A 05 62
0000:32ED DD 46 0F
0000:32ED DD 46 0F
 0000:32D6
                                     sub_0_32D6:
                                                                                                                                                  ; CODE XREF: sub_0_3202+7C1p
                                                                             a, (ix+1Ch)
                                                                 ld
                                                                cp
jp
ld
                                                                             nz, loc_0_32FD
a, (ix+1Dh)
                                                                             nz, loc_0_330B
(ix+1Dh), 0
                                                                 cp
jp
ld
ld
                                                                              a, (mario_y)
b, (ix+0Fh)
                                                                 ld
                                                                sub
jp
ld
0000:32F0 90
0000:32F1 DA 03 33
0000:32F4 DD 36 1C FF
0000:32F8
                                                                                  loc_0_3303
                                                                             (ix+1Ch), 0FFh
0000:32F8
0000:32F8 DD 36 0D 00
0000:32FC C9
                                     loc_0_32F8:
                                                                                                                                                  ; CODE XREF: sub_0_32D6+2A j
                                                                 ld
                                                                             (ix+0Dh), 0
                                                                 ret
0000:32FD
0000:32FD
0000:32FD
0000:32FD DD 35 1C
0000:33PD DD 35 1C
0000:3300 C2 F8 32
0000:3303
0000:3303
0000:3303 DD 36 19 00
0000:3307 DD 36 1C 00
                                                                                                                                                  ; CODE XREF: sub_0_32D6+5<sup>†</sup>j
                                     loc_0_32FD:
                                                                              (ix+1Ch)
                                                                 dec
                                                                jр
                                                                              nz, loc_0_32F8
                                     loc_0_3303:
                                                                                                                                                  ; CODE XREF: sub_0_32D6+1B<sup>†</sup>j
                                                                              (ix+19h), 0
(ix+1Ch), 0
                                                                 1d
                                                                ld
                                                                                                                                                 ; CODE XREF: sub_0_32D6+D<sup>†</sup>j
                                     loc_0_330B:
 0000:330B CD OF 33
                                                                 call
                                                                              sub_0_330F
0000:330E C9
0000:330E
0000:330E
                                     ret; End of function sub_0_32D6
0000:330F
                                     ; SUBROUTINE
```

```
0000:330F
 0000:330F
                                                                                                                                             ; CODE XREF: sub_0_3202+1C^p; sub_0_3206+35^p
 0000:330F
                                    sub_0_330F:
 0000:330F DD 7E 16
0000:330F
                                                                           a, (ix+16h)
 0000:3312 FE 00
0000:3314 C2 32 33
0000:3317 DD 36 16 2B
0000:331B DD 36 0D 00
                                                              cp
jp
ld
ld
                                                                           nz, loc_0_3332
(ix+16h), 2Bh; '+'
(ix+0Dh), 0
 0000:331F 3A 18 60
0000:3322 0F
                                                               ld
                                                                           a, (random_no)
                                                               rrca
jp
ld
 0000:3322 OF
0000:3323 D2 32 33
0000:3326 DD 7E 0D
                                                                           a, (ix+0Dh)
1
 0000:3329 FE 01
0000:332B CA 36 33
0000:332E DD 36 0D 01
                                                               cp
jp
ld
                                                                            z, loc_0_3336
                                                                           (ix+0Dh), 1
 0000:3332
                                                                                                                                             ; CODE XREF: sub_0_330F+5<sup>†</sup> j
; sub_0_330F+14<sup>†</sup> j ...
 0000:3332
                                    loc_0_3332:
 0000:3332 DD 35 16
0000:3332
                                                                           (ix+16h)
 0000:3335 C9
                                                              ret
 0000:3336
0000:3336
                                    loc_0_3336:
                                                                                                                                             ; CODE XREF: sub_0_330F+1Cfj
 UUUU:3336

0000:3336 DD 36 0D 02

0000:333A C3 32 33

0000:333A

0000:333A
                                                               ld
                                                                            (ix+0Dh)
                                     jp loc_0_3332
; End of function sub_0_330F
 0000:333D
0000:333D
0000:333D
                                                              SUBROUTINE
sub_0_333D:
                                                                                                                                             ; CODE XREF: sub 0 3202+2E1p
                                                                           a, (ix+ODh)
                                                              1d
                                                               ср
                                                               jp
cp
jp
                                                                            z. loc 0 3371
                                                                           z, loc_0_338A
sub_0_33A1
                                                              call
ld
                                                                           a, (ix+0Fh)
                                                              add
ld
ld
ld
                                                                           a, 8
d, a
a, (ix+0Eh)
bc, 15h
                                                               call
and
                                                                            sub_0_236E
                                                                            a
z, loc_0_3399
                                                              jp
ld
ld
ld
ld
                                                                            (ix+1Fh)
 0000:3360 DD 70 IF
0000:3363 3A 05 62
0000:3366 47
0000:3367 DD 7E 0F
                                                                            a, (mario_y)
                                                                           b, a
a, (ix+0Fh)
 0000:336A 90
0000:336B D0
0000:336C DD 36 0D 04
                                                              sub
ret
ld
                                                                           nc
(ix+0Dh), 4
 0000:3370 C9
 0000:3371
0000:3371
                                                                                                                                             ; CODE XREF: sub_0_333D+51j
                                    loc_0_3371:
 0000:3371
 0000:3371 DD 7E 0F
0000:3374 C6 08
0000:3376 DD 46 1F
0000:3379 B8
                                                                           a, (ix+0Fh)
a, 8
b, (ix+1Fh)
                                                               1d
                                                               add
ld
                                                               cp
ret
                                                                           b
 0000:3379 B8

0000:337A C0

0000:337B DD 36 0D 00

0000:337F DD 7E 19

0000:3382 FE 02

0000:3384 C0

0000:3385 DD 36 1D 01

0000:3389 C9

0000:3389 C9
                                                                           nz
                                                                           (ix+0Dh), 0
a, (ix+19h)
2
                                                               ld
ld
                                                               cp
ret
                                                                            (ix+1Dh), 1
 0000:338A
 0000:338A
 0000:338A
0000:338A DD 7E 0F
                                                                                                                                             ; CODE XREF: sub_0_333D+A1j
                                     loc_0_338A:
                                                               ld
                                                                           a, (ix+OFh)
                                                                           a, 8
b, (ix+1Fh)
 0000:338D C6 08
0000:338F DD 46 1F
0000:3392 B8
0000:3393 C0
                                                              add
ld
                                                               ср
                                                               ret
                                                                           nz
 0000:3394 DD 36 0D 00
0000:3398 C9
0000:3399
0000:3399
                                                               1d
                                                                            (ix+0Dh), 0
loc_0_3399:
                                                                                                                                             ; CODE XREF: sub_0_333D+201j
                                                               ld
                                                                           (ix+0Dh), 8
                                                               ret
                                     ; End of function sub_0_333D
                                                             SUBROUTINE
                                     sub_0_33A1:
                                                                                                                                             ; CODE XREF: sub_0_333D+D<sup>†</sup>p
                                                               1d
                                                                           a, 7
30h
a, (ix+0Fh)
59h; 'Y'
                                                               rst
ld
                                                                                                                                             ; return if level bit not set
                                                               Cρ
                                                                           nc
                                                                            sp
                                                               inc
                                                                           sp
                                                               ret
                                     ; End of function sub_0_33A1
                                                             SUBROUTINE
                                                                                                                                             ; CODE XREF: sub 0 3202+39 p
                                     sub 0 33AD:
 0000:33AD DD 7E 0D
0000:33AD DD 7E 0D
0000:33BD FE 01
0000:33BD CA DD 7E 07
0000:33BB E6 7F
0000:33BB DD 77 07
0000:33BD DD 35 0E
                                                                           a, (ix+0Dh)
1
z, loc_0_33D9
                                                               ld
                                                               ср
                                                               jp
ld
                                                                           a, (ix+7)
7Fh; ''
(ix+7), a
                                                                                                                                             ; reset hflip
; sprite tile #
                                                               ld
                                                                           (ix+7), a
(ix+0Eh)
                                                              dec
 0000:3300
 0000:33C0
                                    loc_0_33C0:
                                                                                                                                             ; CODE XREF: 0000:33E4-j
```

```
0000:33C0 CD 09 34
                                                                            call
                                                                                            sub_0_3409
                                            ; End of function sub 0 33AD
 0000:33C0
 0000:3300
                                                                        SUBROUTINE
 0000:33C3
0000:33C3
0000:33C3
0000:33C3
                                            sub_0_33C3:
                                                                                                                                                                            ; CODE XREF: sub_0_3202+A9↑p
ld
                                                                                            a, (level_type)
                                                                            cp
ret
ld
ld
                                                                                            nz
h, (ix+0Eh)
l, (ix+0Fh)
                                                                            ld
                                                                                            b.
                                                                                                  (ix+0Dh)
                                                                            call
ld
                                                                                             sub_0_2333
                                                                                            (ix+0Fh), 1
                                                                            ret
0000:33D8
0000:33D8
0000:33D9
                                             ; End of function sub_0_33C3
0000:33D9
0000:33D9
0000:33D9 DD 7E 07
0000:33DE DD 77 07
0000:33DE DD 77 07
0000:33BE DD 77 07
0000:33BE DD 34 0E
0000:33BE CD 03 33
0000:33BE 7
                                                                                                                                                                            ; CODE XREF: sub_0_33AD+5<sup>†</sup>j
; sprite tile #
; set hflip
                                            loc_0_33D9:
                                                                                           a, (ix+7)
80h; 'C'
(ix+7), a
(ix+0Eh)
                                                                            ld
                                                                            or
ld
                                                                            inc
jp
                                                                                             loc_0_33C0
                                                                            SUBROUTINE
0000:33E7
0000:33E7
0000:33E7
0000:33E7
0000:33ED PE 08
0000:33ED PE 08
0000:33ED PE 08
0000:33ED 2D 7E 14
0000:33F5 A7
0000:33F5 A7
0000:33F9 DD 36 14 02
0000:33FD DD 35 0F
0000:3400
0000:3400
0000:3401
0000:3401
0000:3401
0000:3401
0000:3401
0000:3401
0000:3401
0000:3401
0000:3405
                                            sub_0_33E7:
                                                                                                                                                                            ; CODE XREF: sub_0_3202+8F1p
                                                                            call
ld
                                                                                            sub_0_3409
a, (ix+0Dh)
8
                                                                            ср
                                                                            jp
ld
and
jp
ld
                                                                                            nz. loc 0 3405
                                                                                             a, (ix+14h)
                                                                                            nz, loc_0_3401
                                                                                            (ix+14h),
(ix+0Fh)
                                                                            ret
                                             loc_0_3401:
                                                                                                                                                                             ; CODE XREF: sub_0_33E7+F<sup>†</sup>j
                                                                                            (ix+14h)
                                                                            ret
 0000:3405
0000:3405
                                             loc_0_3405:
                                                                                                                                                                            ; CODE XREF: sub_0_33E7+81j
0000:3405 DD 34 0F
0000:3408 C9
0000:3408
0000:3408
                                                                            inc
                                                                                            (ix+0Fh)
                                                                            ret
                                            ; End of function sub_0_33E7
 0000:3409
 0000:3409
0000:3409
0000:3409
                                                          SUBROUTINE
0000:3409

0000:3409

0000:3409 DD 7E 15

0000:3400 A7

0000:3400 DD 36 15 02

0000:3401 DD 36 15 02

0000:3410 DD 36 07

0000:3417 DD 7E 07

0000:3417 DD 7E 07

0000:3411 EO 07

0000:341E CO 0000:341E CO 0000:341E CO 0000:342E DD 77 07

0000:3427 C9

0000:3428 DD 35 15

0000:3428 DD 35 15

0000:3428 C9
                                            sub_0_3409:
                                                                                                                                                                             ; CODE XREF: sub_0_33AD+13<sup>†</sup>p
; sub_0_33E7<sup>†</sup>p
                                                                                            a, (ix+15h)
                                                                            ld
                                                                            and
                                                                            jp
ld
inc
                                                                                            nz, loc_0_3428
                                                                                            (ix+15h), 2
(ix+7)
                                                                                                                                                                             ; inc fireball animation
                                                                                           a, (ix+7)
0Fh
                                                                            ld
                                                                            and
                                                                            cp
ret
ld
                                                                                                                                                                             ; last animation frame?
                                                                                            nz
                                                                                                                                                                             ; no, return
                                                                                            a, (ix+7)
                                                                            xor
ld
                                                                                                                                                                             ; reset animation frame
                                                                                             (ix+7), a
                                                                            ret
                                            loc_0_3428:
                                                                                                                                                                            ; CODE XREF: sub_0_3409+41j
                                                                                            (ix+15h)
                                                                            dec
0000:3428 C9
0000:342B
0000:342B
0000:342C
                                            ret
; End of function sub_0_3409
 0000:342C
0000:342C
0000:342C
                                                                          SUBROUTINE
 0000:342C
                                            sub_0_342C:
                                                                                                                                                                            ; CODE XREF: sub 0 32BD+111p
 0000:342C DD 6E 1A
0000:342F DD 66 1B
0000:3432 AF
0000:3433 01 00 00
0000:3436 ED 4A
0000:3438 C2 42 34
0000:3438 DD 36 03
                                                                            ld
ld
                                                                                            1, (ix+1Ah)
h, (ix+1Bh)
                                                                                           a bc, 0 hl, bc nz, loc_0_3442 hl fireball_br
                                                                            xor
ld
                                                                            jp
ld
                                                                                            hl, fireball_bounce_data
 0000:343E DD 36 03 26
0000:3442
0000:3442
0000:3442 DD 34 03
                                                                            1d
                                                                                            (ix+3), 26h; '&
                                            loc_0_3442:
                                                                                                                                                                            ; CODE XREF: sub_0_342C+C^jj
                                                                            inc
                                                                                            (ix+3)
 0000:3445
0000:3445
0000:3445
7E
                                                                                                                                                                            ; CODE XREF: sub_0_3478+2D|j; sub_0_3478+3E|j
                                             loc_0_3445:
 0000:3445
                                                                            ld
                                                                                            a, (hl)
0000:3445
0000:3446 FE AA
0000:3448 CA 56 34
0000:344B DD 77 05
0000:344F 23
0000:344F DD 75 1A
0000:3455 C9
0000:3456
                                                                            cp
jp
ld
                                                                                           OAAh; '¬'
z, loc_0_3456
(ix+5), a
                                                                            inc
                                                                                            hl
                                                                                            (ix+1Ah), l
(ix+1Bh), h
                                                                            ld
ld
                                                                            ret
                                             loc_0_3456:
                                                                                                                                                                           ; CODE XREF: sub_0_342C+1Cfj
0000:3456 AF
0000:3457 DD 77 13
0000:345A DD 77 18
0000:345A DD 77 0D
0000:3460 DD 77 1C
                                                                            xor
                                                                                            (ix+13h), a
(ix+18h), a
(ix+0Dh), a
                                                                            ld
ld
ld
                                                                            1d
                                                                                             (ix+1Ch)
                                                                                            a, (ix+3)
 0000:3463 DD 7E 03
                                                                            ld
```

```
0000:3466 DD 77 0E
0000:3469 DD 75 05
0000:346C DD 77 0F
0000:3467 DD 36 1A 00
0000:3473 DD 36 1B 00
0000:3477 C9
0000:3477
0000:3477
                                                                                                 a, (ix+5)
(ix+0Fh), a
(ix+1Ah), 0
(ix+1Bh), 0
                                                                                ld
ld
                                                                                ret
                                              ; End of function sub_0_3420
                                              ; SUBROUTINE SUBROUTINE
0000:3478
0000:3478
0000:3478
0000:3478
                                              sub_0_3478:
                                                                                                                                                                                     ; CODE XREF: sub_0_32BD+15<sup>p</sup>
0000:3478 DD 6E 1A
0000:3478 DD 66 1B
0000:347E AF
0000:347F 01 00 00
                                                                                1d
                                                                                                l, (ix+1Ah)
h, (ix+1Bh)
                                                                                ld
                                                                                xor
                                                                                                 bc, 0
                                                                                ld
0000:347F 01 00 00
0000:3482 ED 4A
0000:3484 C2 9A 34
0000:3487 3A 03 62
0000:348D CB 7F
0000:348F CA AB 34
0000:3492 DD 36 0D 01
0000:3496 DD 36 03 7E
                                                                                adc
jp
ld
                                                                                                 hl, bc
nz, loc_0_349A
hl, cement_fireball_data
                                                                                ld
                                                                                                 a, (mario_x)
7, a
                                                                                bit
jp
ld
                                                                                                       loc_0_34A8
                                                                                                 (ix+0Dh), 1
(ix+3), 7Eh; '~'
                                                                                ld
0000:3496 DD 36 03
0000:349A DD 7E 0D
0000:349A DD 7E 0D
0000:349A FE 01
0000:349A DD 34 03
0000:349A DD 34 03
0000:34A2 DD 34 03
0000:34A8 DD 36 0D
                                                                                                                                                                                     ; CODE XREF: sub_0_3478+C<sup>†</sup>j; sub_0_3478+38<sup>†</sup>j
                                              loc_0_349A:
                                                                                14
                                                                                                 a, (ix+0Dh)
                                                                                ср
                                                                                                 nz, loc_0_34B3
                                                                                jp
inc
                                                                                                  (ix+3)
                                                                                                 loc_0_3445
                                                                                jp
                                                                                                                                                                                     ; CODE XREF: sub_0_3478+17 j
0000:34A8 DD 36 0D 02
0000:34AC DD 36 03 80
0000:34B0 C3 9A 34
0000:34B3
0000:34B3
0000:34B3
0000:34B6 C3 45 34
0000:34B6
0000:34B6
0000:34B9
                                              loc 0 34A8:
                                                                                                 (ix+0Dh), 2
(ix+3), 80h; 'Ç'
loc_0_349A
                                                                                1d
                                                                                jр
                                                                                                                                                                                      ; CODE XREF: sub_0_3478+27 j
                                               loc_0_34B3:
                                                                                                 (ix+3)
loc_0_3445
                                                                                dec
                                              jp loc_
; End of function sub_0_3478
0000:34B9
0000:34B9
                                                                             SUBROUTINE
0000:34B9
0000:34B9
0000:34B9
                                                                                                                                                                                     ; CODE XREF: sub 0 32BD+D|p
                                              sub_0_34B9:
                                                                                                a, (level_type)
3
0000:34B9 3A 27 62
0000:34BC FE 03
0000:34BE C8
0000:34BF 3A 03 62
0000:34C2 CB 7F
0000:34C4 C2 ED 34
0000:34C7 21 C4 3A
                                                                                ld
                                                                                cp
ret
                                                                                                 a, (mario_x)
7, a
                                                                                1d
                                                                                bit
                                                                                                7, a
nz, loc_0_34ED
hl, rivet_fireball_data
                                                                                jp
ld
0000:34CA
0000:34CA
0000:34CA
0000:34CA
0000:34CC 3A 19 60
0000:34CF E6 06
                                              loc_0_34CA:
                                                                                                                                                                                     ; CODE XREF: sub_0_34B9+37|j
                                                                                                a, (random_no+1)
                                                                                ld
                                                                                and
0000:34D1 4F
0000:34D2 09
                                                                                ld
add
                                                                                                 c, a
hl, bc
a, (hl)
(ix+3),
0000:34D2 US
0000:34D3 7E
0000:34D4 DD 77 03
0000:34D7 DD 77 0E
0000:34DA 23
0000:34DB 7E
                                                                                ld
ld
ld
                                                                                                (ix+3), a
(ix+0Eh), a
hl
a, (hl)
(ix+5), a
(ix+0Fh), a
                                                                                inc
ld
0000:34DB 7E
0000:34DC DD 77 05
0000:34DF DD 77 0F
0000:34E2 AF
0000:34E3 DD 77 0D
0000:34E6 DD 77 18
0000:34E6 DD 77 1C
                                                                                ld
ld
                                                                                xor
                                                                                                 (ix+0Dh), a
(ix+18h), a
(ix+1Ch), a
                                                                                ld
ld
ld
                                                                                ret
0000:34ED
0000:34ED
0000:34ED
                                               loc_0_34ED:
                                                                                                                                                                                     ; CODE XREF: sub_0_34B9+B<sup>†</sup>j
                                                                                                 hl, rivet_fireball_start_points
0000:34ED 21 D4 3A
                                                                               ld
0000:34F0 C3 CA 34
0000:34F0
0000:34F0
0000:34F3
                                              jp loc_
; End of function sub_0_34B9
                                                                                                 loc_0_34CA
0000:34F3
0000:34F3
0000:34F3
0000:34F3
                                                                           SUBROUTINE
                                                                                                                                                                                      ; CODE XREF: sub_0_30ED+91p
                                              sub 0 34F3:
0000:34F3
0000:34F3 21 00 64
0000:34F6 11 D0 69
0000:34F9 06 05
                                                                                                                                                                                      ; fireball character data
; fireballs in sprite ram
; 5 fireballs (max)
                                                                                14
                                                                                                 hl, unk_0_6400
                                                                                                de, soft_sprite_ram+0D0h
b, 5
                                                                                ld
0000:34FB
0000:34FB
0000:34FB 7E
0000:34FC A7
                                              loc_0_34FB:
                                                                                                                                                                                     ; CODE XREF: sub_0_34F3+28 | j
                                                                                ld
                                                                                                 a, (hl)
                                                                                and
0000:34FD CA 1E 35
0000:3500 2C
0000:3501 2C
                                                                                jp
inc
inc
                                                                                                 z, loc_0_351E
0000:3502 2C
0000:3503 7E
0000:3504 12
0000:3505 3E 04
0000:3507 85
0000:3508 6F
0000:3508 1C
0000:3508 12
0000:3508 2C
0000:350B 12
0000:350B 12
0000:350B 12
0000:3502 20
                                                                                inc
                                                                                ld
                                                                                                       (hl)
                                                                                                                                                                                     ; fireball X coordinate
                                                                                                a, (hl)
(de), a
a, 4
a, l
l, a
e
                                                                                ld
ld
                                                                                add
                                                                                ld
inc
                                                                                                       (hl)
                                                                                                                                                                                     ; fireball sprite tile #
                                                                                ld
                                                                                                  (de), a
                                                                                ld
0000:350E 7E
0000:350F 12
0000:3510 2D
0000:3511 2D
                                                                                                 a, (hl)
                                                                                                                                                                                    ; fireball palette
                                                                                1d
                                                                                ld
dec
dec
                                                                                                  (de), a
0000:3512
                                                                                dec
0000:3513 1C
```

```
; fireball Y coord
                                                                                                                                                           (hl)
                                                                                                                                                  (de), a
 0000:3515 12
                                                                                                                         1d
 0000:3515 12
0000:3516 13
0000:3517
0000:3517
                                                                     loc_0_3517:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_34F3+33|j
 0000:3517 3E 1B
0000:3519 85
0000:351A 6F
0000:351B 10 DE
                                                                                                                                                a, 1Bh
a, 1
1, a
                                                                                                                        ld
                                                                                                                         add
                                                                                                                                                 loc_0_34FB
                                                                                                                        djnz
 0000:351D C9
 0000:351E
0000:351E
0000:351E
                                                                     loc_0_351E:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_34F3+A1j
 0000:351E 3E 05
                                                                                                                         1d
                                                                                                                                                 a, 5
a, 1
1, a
a, 4
 0000:351E 3E 03
0000:3520 85
0000:3521 6F
0000:3522 3E 04
                                                                                                                         add
                                                                                                                         ld
                                                                                                                         ld
                                                                                                                        add
ld
                                                                                                                                                 a, e
e, a
 0000:3524 83
0000:3525 5F
 0000:3525 5F
0000:3526 C3 17 35
                                                                                                                                                  loc_0_3517
                                                                                                                         jр
 0000:3526
                                                                      ; End of function sub 0 34F3
 0000:3526
0000:3526
0000:3526
0000:3529 00 00 00
                                                                     Bonus Points Tbl:.db 0, 0, 0
                                                                                                                                                                                                                                                                                     DATA XREF: sub 0 51C+9<sup>o</sup>
                                                                                                                                                                                                                                                                                 ; 0 pts
; 100 pts
; 200 pts
 0000:3529
                                                                                                                         .db 0, 1, 0
.db 0, 2, 0
.db 0, 3, 0
 0000:352C 00 01 00
0000:352F 00 02 00
0000:3532 00 03 00
0000:3535 00 04 00
0000:3538 00 05 00
0000:3538 00 06 00
0000:3538 00 07 00
                                                                                                                                                                                                                                                                                       300 pts
                                                                                                                           dh
                                                                                                                                                                                                                                                                                       400 pts
                                                                                                                                                                                                                                                                                      500 pts
600 pts
700 pts
                                                                                                                         .db
 0000:3541 00 08 00
0000:3544 00 09 00
0000:3547 00 00 00
0000:354A 00 10 00
                                                                                                                                                                                                                                                                                     800 pts
900 pts
                                                                                                                          .db
                                                                                                                         .db
                                                                                                                         .db 0, 9, 0
.db 0, 0, 0
.db 0, 10h, 0
.db 0, 20h, 0
.db 0, 30h, 0
.db 0, 40h, 0
.db 0, 60h, 0
.db 0, 60h, 0
.db 0, 80h, 0
                                                                                                                                                                                                                                                                                     0 pts
1000 pts
 0000:354A 00 10 00
0000:354D 00 20 00
0000:3550 00 30 00
0000:3553 00 40 00
                                                                                                                                                                                                                                                                                      2000
                                                                                                                                                                                                                                                                                       3000 pts
4000 pts
 0000:3556 00 50 00
                                                                                                                                                                                                                                                                                      5000 pts
 0000:3550 00 50 00
0000:3559 00 60 00
0000:355C 00 70 00
0000:355F 00 80 00
                                                                                                                                                                                                                                                                                      6000
                                                                                                                                                                                                                                                                                       8000 pts
 0000:3562 00 90 00
0000:3565 94 77 1
0000:3567 01 23 24 10+
0000:3567 10 00 00 07+
                                                                                                                                                                                                                                                                                      9000 pts
                                                                                                                        ; DATA XREF: sub_0_207+53\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagg
                                                                     high_score_tbl:
 0000:3567 06 05 00 10+
0000:3567 06 05 00 10+
0000:3585 F4 76
0000:3587 96 77
0000:3589 02 1E 14 10+
0000:3589 01 00 00 10+
0000:3589 01 00 00 10+
0000:35A9 76 76
0000:35A9 03 22 14 10+
0000:35AB 03 22 14 10+
0000:35AB 03 22 14 10+
0000:35AB 00 00 00 05+
0000:35AB 09 05 00 10+
                                                                                                                        0000:35C9 F8 76
0000:35CB 9A 77
0000:35CD 04 24 18 10+
0000:35CD 10 00 00 05+
0000:35CD 00 05 00 10+
0000:35EB FA 76
0000:35EB 9C 77
0000:35EF 05 24 18 10+
0000:35EF 00 00 00 04+
0000:35EF 03 00 00 10+
0000:35EF 03 00 00 10+
0000:360F 3B 5C 4B 5C+letter_coords:
0000:360F 5B 5C 6B 5C+
0000:360F 7B 5C 8B 5C+
0000:360F 9B 5C AB 5C+
0000:360F BB 5C CB 5C+
0000:364B 8B 36 0000:364B 01 00
 0000:35CD 00 05 00 10+
                                                                                                                         .db 3Bh, 5Ch, 4Bh, 5Ch, 5Bh, 5Ch, 6Bh, 5Ch, 7Bh, 5Ch, 8Bh
; DATA XREF: sub_0_15FA+410
                                                                                                                         db 5Ch, 9Bh, 5Ch, 0ABh, 5Ch, 0BBh, 5Ch, 0CBh, 5Ch, 3Bh db 6Ch, 4Bh, 6Ch, 5Bh, 6Ch, 6Bh, 6Ch, 7Bh, 6Ch, 8Bh, 6Ch db 9Bh, 6Ch, 0ABh, 6Ch, 0BBh, 6Ch, 0CBh, 6Ch, 3Bh, 7Ch db 48h, 7Ch, 5Bh, 7Ch, 6Bh, 7Ch, 7Bh, 7Ch, 8Bh, 7Ch, 9Bh db 7Ch, 0ABh, 7Ch, 0BBh, 7Ch, 0CBh, 7Ch
                                                                                                                         .dw aGAME OVER
                                                                                                                                                                                                                                                                               ; DATA XREF: print message Afo
0000:364B 8B 36
0000:364F 98 36
0000:3651 A5 36
0000:3655 BF 36
0000:3655 BF 36
0000:3655 CC 36
                                                                                                                          .dw 1
                                                                                                                         .dw aPLAYER
.dw aPLAYER
                                                                                                                          .dw aHIGH SCORE
                                                                                                                          .dw aCREDIT
                                                                                                                         .dw aHOW_HIGH_CAN_YOU_GET
 0000:365B 08 00
                                                                                                                         .dw 8
                                                                                                                         .dw aONLY_1_PLAYER_BUTTON
.dw a1_OR_2_PLAYERS
 0000:3661 0B 00
0000:3663 15 37
0000:3665 1C 37
0000:3667 30 37
0000:3669 38 37
                                                                                                                          .dw OBh
.dw aPUSH
                                                                                                                         .dw aname_registration
.dw aname
.dw aname
.dw a???
 0000:366B 47
0000:366D 5D
0000:366F 73
0000:3671 8B
                                                                                                                         .dw aA_B_C_D_E_F_G_H_I_J
.dw aK_L_M_N_O_P_O_R_S_T
.dw aU_V_W_X_Y_Z_rub_end
.dw aREGI_TIME
 0000:3671 0B 37
0000:3673 00 61
0000:3675 22 61
0000:3677 44 61
                                                                                                                                    6100h
6122h
6144h
                                                                                                                          .dw
                                                                                                                         .dw
 0000:3679 66
                                                                                                                          .dw
 0000:367B 88 61
0000:367D 9E 37
0000:367F B6 37
                                                                                                                         .dw 6188h
.dw arank_score_name
.dw ayour_name_was_registered
 0000:3681 D2 37
                                                                                                                          .dw aINSERT COIN
 0000:3683 E1
0000:3685 1D
0000:3687 00
                                                                                                                          .dw aPLAYER_COIN
.dw 1Dh
                                                                                                                         .dw byte 0 3EFF+1
                                                                                                                         .dw byte_0_3F109
.db 96h, 76h, 17h, 11h, 1Dh, 15h, 10h, 10h, 1Fh, 26h, 15h
; DATA XREF: 0000:364B†0
 0000:3689 09 3F
0000:368B 96 76 17 11+aGAME_OVER:

0000:368B 1D 15 10 10+

0000:368B 1F 26 15 22+

0000:3698 94 76 20 1C+aPLAYER:

0000:3698 11 29 15 22+

0000:3698 10 30 32 31+
                                                                                                                         .db 22h, 3Fh
                                                                                                                         .db 94h, 76h, 20h, 1Ch, 11h, 29h, 15h, 22h, 10h, 30h, 32h
; DATA XREF: 0000:364F
                                                                                                                         .db 94h, 76h, 20h, 1Ch, 11h, 29h, 15h, 22h, 10h, 30h, 33h
; DATA XREF: 0000:3651
 0000:36A5 94 76 20 1C+
0000:36A5 11 29 15 22+
                                                           1C+aPLAYER :
```

.db 0, 35h, 8, 3Ch .db 53h, 32h, 8, 40h .db 63h, 33h, 8, 40h .db 0, 70h, 8, 48h .db 53h, 36h, 8, 50h .db 63h, 37h, 8, 50h .db 6Bh, 31h, 8, 41h .db 0, 70h, 8, 48h .db 6Ah, 14h, 0Ah, 4

0000:38B4 FD FD FD FD+dk\_intro\_jump\_up\_data:.db 0FDh, 0FDh, 0FDh, 0FDh, 0FDh, 0FDh, 0FDh, 0FDh, 0FEh, 0FEh

01+ .db 1, 1, 1, 1, 1, 7Fh 10+draw\_data\_bend\_girders\_2:.db 4, 7Fh, 0F0h, 10h, 0F0h, 2, 0DFh, 0F2h, 70h, 0F8h

.db 0FEh, 0FEh, 0FEh, 0FFh, 0FFh, 0FFh, 0FFh, 0 .db 0, 1, 1, 1, 7Fh

0000:388C 0000:3890 0000:3890 0000:3894 53 32 08 40

0000:3898 63 33 08 40 0000:389C 00 70 08 48

0000:38B4 FD FD FD FE+ 0000:38B4 FE FE FE FE+ 0000:38B4 FE FF FF FF+

0000:38CB FF 00 FF 00+ 0000:38CB 00 01 00 01+ 0000:38CB 01 01 01 01+ 0000:38CB 04 7-

0000:38DC F0 02 DF F2+

0000:38A4 63 0000:38A8 6B 31 08 41 ; DATA XREF: 0000:0AC010

DATA XREF: 0000:0AA91o

DATA XREF: 0000:0B911o

; 0000:168B1o

; DATA XREF: ( ; 0000:0B861o

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```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 21/11/2013, 12:01:24 AM
0000:3932 3B AE 08 4C+
0000:3932 3B AF 08 3C+
0000:3932 4B BO 07 3C+
0000:39AA FE FE FE FF+
0000:39AA FF 00 FF 00+
0000:39AA 00 01 00 01+
                                                                                                                                                                                                                           ; DATA XREF: sub_0_2E04+98\u00f30
; sub_0_2E04+C4\u00f30
 0000:39AA 00 01 00 01+ .db 0, 0FFh, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 3, 0000:39C3 1E 4E BB 4C+barell_rolling_data:.db 1Eh, 4Eh, 0BBh, 4Ch, 0D8h, 4Eh, 59h, 4Eh,
                                                                                                                                                                                                                            3, 7Fh
, 7Fh
 0000:39C3 D8 4E 59 4E+
0000:39CC BB 4D 7F barrel_falling_data:.db 0BBh, 4Dh, 7Fh
0000:39CF 47 27 08 50 dk_thrash_right_spr:.db 47h, 27h, 8, 50h
                                                                                                                                                                                                                              DATA XREF: sub_0_2C8F+FD10
DATA XREF: sub_0_2C8F+F410
DATA XREF: animate_kong_and_pauline+4310
                                      0000:39CF
                                                                                                                                                                                                                           : 0000:081610
 0000:39CF
0000:39D3 2D 26 08 50
0000:39D7 3B 25 08 50
0000:39DB 00 70 08 48
 0000:39DF 3B 24 07 40
 0000:39E3 4B 28
0000:39E7 00 70
 0000:39EB 30 29 08 44
 0000:39EF 00 70 08 48 0000:39F3 00 70 0A 48
 0000:39F3 00 70
0000:39F7 49 A6
                                                                                                                                                                                                                        ; DATA XREF: animate_kong_and_pauline+4A<sup>↑</sup>o
 0000:39FB 2F A7 08 50
 0000:39FF 3B 25 08 50
0000:3A03 00 70 08 48
 0000:3A03
0000:3A07
                         3B
 0000:3A0B 46 A9 08 44
 0000:3A0F 00 70
0000:3A13 2B A8
 0000:3A17 00 70 08 48 0000:3A1B 00 70 0A 48
 0000:3A1F 73 A7 88 60 fk_falling_spr: .db
0000:3A23 8B 27 88 60 .db
0000:3A27 7F 25 88 60 .db
                                                                                                                                                                                                                     ; DATA XREF: 0000:1870↑o
 0000:3A2B 00 70 88 68
0000:3A2F 7F 24 87 70
0000:3A33 74 29 88 6C
 0000:3A37 00
 0000:3A3B 8A A9
0000:3A3F 00 70
 0000:3A3F 00
0000:3A43 00
0000:3A43 00 70 8A 68 0000:3A74 05 AF F0 50+draw_data_rivet_end1:.db 5, 0AFh, 0F0h, 50h, 0F0h, 0AAh 0000:3A4D 05 AF F0 50+draw_data_rivet_end2:.db 5, 0AFh, 0F0h, 0E8h, 0AAh 0000:3A53 05 AF E0 50+draw_data_rivet_end3:.db 5, 0AFh, 0E8h, 50h, 0E8h, 0AAh 0000:3A59 05 AF D8 50+draw_data_rivet_end3:.db 5, 0AFh, 0E0h, 50h, 0E0h, 0AAh 0000:3A5F 05 BF 58 48+draw_data_rivet_end4:.db 5, 0AFh, 0D8h, 50h, 0D8h, 0AAh 0000:3A5F 01 04 01 03+level_seq_1: .db 1, 4, 1, 3, 4, 1, 2, 3, 4, 1, 2, 1, 3, 4 0000:3A73 01 02 01 03+level_seq_2: .db 1, 2, 1, 3, 1, 4, 7Fh
                                                                                                                                                                                                                          ; DATA XREF: 0000:17D9\u00f30
; DATA XREF: 0000:17E5\u00f30
; DATA XREF: 0000:17F1\u00f30
; DATA XREF: 0000:17FD\u00f30
                                                                                                                                                                                                                           ; DATA XREF: 0000:18A510
 0000:3A3F 03 B7
0000:3A65 01 04
0000:3A73 01 02
0000:3A73 01 04
                                                                                                                                                                                                                              DATA XREF: 0000:095F10
DATA XREF: 0000:179910
                                                                                                                                                                                                                            ; 0000:1947†o
 0000:SA7A FF 00 FF FF+fireball_bouncing_data:.db 0FFh, 0, 0FFh, 0FFh, 0FEh, 0FEh, 0FEh, 0FEh, 0FEh 0000:3A7A FE FE FE FE+ ; DATA XREF: sub_0_3202+65
 0000:3A7A FF U0 FF FFTITEBRAIL DOUBLE DOUBLE
 0000:3A8C E1 E0 DF DE+
0000:3A8C DD DD DC DC+
0000:3A8C DC DC DC DC+
                                                                                               .db ODDh, ODCh, ODCh, ODCh, ODCh, ODCh, ODCh, ODCh, ODDh, ODDh
.db ODEh, ODFh, OEOh, OEIh, OE2h, OE3h, OE4h, OE5h, OE7h
.db OE9h, OEBh, OEDh, OFOh, OAAh
_data:.db 80h, 78h, 78h, 76h, 74h, 73h, 72h, 71h, 70h, 70h, 6Fh
 0000:3A8C DD DD DE DF+
 0000:3AAC 80 78 78 76+cement_fireball_data:.db 80h, 0000:3AAC 74 73 72 71+ 0000:3AAC 70 70 6F 6F+ .db 6Fh, 6Fh,
                                                                                                                                                                                                                               DATA XREF: sub_0_3478+F<sup>↑</sup>o
                                                                                                .db 6Fh, 6Fh, 70h, 70h, 71h, 72h, 73h, 74h, 75h, 76h, 77h
0000:3AAC 6F 70 70 71+ .db 78h, 0AAh
0000:3AAC 6F 70 70 71+ .db 78h, 0AAh
0000:3AC4 EE F0 DB A0+rivet_fireball_data:.db 0EEh, 0F0h, 0DBh, 0A0h, 0E6h, 0C8h, 0D6h, 78h, 0EBh
0000:3AC4 EB F0 DB A0+ .db 0F0h, 0DBh, 0A0h, 0E6h, 0C8h, 0E6h. 0C8h
UUUU:3AC4 EB F0 DB A0+ .db 0F0h, 0DBh, 0A0h, 0E6h, 0C8h, 0E6h, 0C8h
0000:3AD4 1B C8 23 A0+rivet_fireball_start_points:.db 1Bh, 0C8h, 23h, 0A0h, 2Bh, 78h, 12h, 0F0h, 1Bh, 0C8h
0000:3AD4 2B 78 12 F0+ .db 23h, 0A0h 12h 0B0
                                                                                                                                                                                                                         ; DATA XREF: sub_0_34B9+341o
 0000:3AE4 02 97 38 68+0
0000:3AE4 38 02 9F 54+
0000:3AE4 10 54 02 DF+
                                         38 68+draw_data_girder:.db 2, 97h, 38h, 68h, 38h, 2, 9Fh, 54h, 10h, 54h, 2, 0DFh
                                                                                                                                                                                                                      ; DATA XREF: 0000:0CD4\(^\)o
; sub_0_2441+19\(^\)o
                                              0000:3AE4 58 A0
0000:3AE4 EF 6D
                                         55 02+
20 79+
 0000:3AE4 EF 0D 20 79+
0000:3AE4 02 DF 9A 10+
0000:3AE4 8E 02 EF AF+
0000:3AE4 20 BB 02 DF+
 0000:3AE4 DC 10 D0 02+
0000:3AE4 FF F0 80 F7+
0000:3AE4 02 7F F8 00+
0000:3AE4 F8 00 CB 57+
 0000:3AE4 CB 6F 00 CB+
0000:3AE4 99 CB B1 00+
0000:3B5D 06 8F 90 70+
0000:3B5D 90 06 8F 98+
                                                                                                                                                                                                                         ; DATA XREF: 0000:0CDF10; sub_0_2441+2010
0000:3B5D 70
                                98 06
```

0000:3BE5 58 00 63 88+ 0000:3BE5 63 D0 00 53+ ; DATA XREF: 0000:0CFA\(\)o
; sub\_0\_2441+27\(\)o

```
00+ .db 18h, 53h, 58h, 0, 53h, 88h, 53h, 0D0h, 0, 0E3h, 68h

D0+ .db 0E3h, 90h, 0, 0E3h, 0B8h, 0E3h, 0D0h, 0, 0CBh, 90h

E3+ .db 0CBh, 0B0h, 0, 0B3h, 58h, 0B3h, 78h, 0, 98h, 80h, 98h

B8+ .db 0A0h, 0, 93h, 38h, 93h, 58h, 0, 23h, 88h, 23h, 0C0h

CB+ .db 0, 1Bh, 0C0h, 1Bh, 0E8h, 2, 97h, 38h, 68h, 38h, 2

00+ .db 0B7h, 58h, 10h, 58h, 2, 0EFh, 68h, 0E0h, 68h, 2, 0D7h

78+ .db 70h, 0C8h, 70h, 2, 0BFh, 78h, 0B0h, 78h, 2, 0A7h, 80h

9B+ .db 90h, 80h, 2, 67h, 88h, 48h, 88h, 2, 27h, 88h, 10h

38+ .db 88h, 2, 0EFh, 90h, 0C8h, 90h, 2, 0A7h, 0A0h, 98h, 0A0h

23+ .db 2, 0BFh, 0A8h, 0B0h, 0A8h, 2, 0D7h, 0B0h, 0C8h, 0B0h

00+ .db 2, 0BFh, 0A8h, 0B0h, 0A8h, 2, 27h, 0C0h, 10h, 0C0h

E8+ .db 2, 0EFh, 0B8h, 0E0h, 0B8h, 2, 27h, 0C0h, 10h, 0C0h

68+ .db 2, 0FFh, 0D0h, 0D8h, 0D0h, 2, 67h, 0D0h, 50h, 0D0h

68+ .db 2, 0FFh, 0B8h, 0C0h, 0D8h, 2, 0B7h, 0E0h, 0A8h, 0E0h

58+ .db 2, 9Fh, 0E8h, 88h, 0E8h, 2, 27h, 0E8h, 10h, 0E8h, 2

EF+ .db 0.78h, 10h, 0F8h, 0A8h, 0, 78h, 0D0h, 78h, 0F8h, 0

D0+ .db 2, 9Fh, 0F8h, 10h, 0F8h, 0A8h, 0, 78h, 0D0h, 78h, 0F8h, 0

EF+ .db 0.78h, 10h, 0F8h, 0A8h, 0, 78h, 0D0h, 78h, 0F8h, 0

D0+ .db 2, 0FFh, 0F8h, 10h, 0F8h, 0A8h, 0, 78h, 0D0h, 78h, 0F8h, 0

EF+ .db 0.78h, 80h, 78h, 0A8h, 0, 78h, 0D0h, 78h, 0F8h, 0

D0+ .db 2, 0FFh, 0F8h, 10h, 0F8h, 0A8h, 0, 78h, 0D0h, 78h, 0F8h, 0

EF+ .db 0.78h, 80h, 78h, 0A8h, 0, 78h, 0D0h, 78h, 0F8h, 0

EDATA XREF: 0000:0CC3|0
0000:3BE5 18 53 58
0000:3BE5 53 88 53 D0+
0000:3BE5 00 E3 68 E3+
0000:3BE5 90 00 E3 B8+
0000:3BE5 E3 D0 00 CB+
0000:3BE5 90 CB B0 00+
0000:3BE5 B3 58 B3 78+
0000:3BE5 B5 56 B5
0000:3BE5 00 9B 80
0000:3BE5 A0 00 93
                                          38+
0000:3BE5 93
                             58 00
0000:3BE5
                      88
                             23 C0
0000:3BE5 00 23
0000:3BE5 1B C0
0000:3BE5 02 97
                                    1B
38
                                          68+
0000:3BE5 38 02 B7 58+
0000:3BE5 10 58 02 EF+
0000:3C8B 00 7B 80 7B+0
0000:3C8B A8 00 7B D0+
0000:3C8B 7B F8 00 33+
0000:3C8B 58 33 80 00+
0000:3C8B 53 58 53 80+
                                                                                                                                                                                                    ; sub_0_2441+2D↑o
                                                                                        ; sub_0_;
db 33h, 58h, 33h, 80h, 0, 53h, 58h, 53h, 80h, 0, 0ABh,
db 58h, 0ABh, 80h, 0, 0CBh, 58h, 0CBh, 80h, 0, 2Bh, 80h,
db 2Bh, 0A8h, 0, DD3h, 80h, DD3h, 0A8h, 0, 23h, 0A8h,
db 23h, 0D0h, 0, 5Bh, 0A8h, 5Bh, 0D0h, 0, 0A3h, 0A8h,
db 0A3h, 0D0h, 0, 0DBh, 0A8h, 5Bh, 0D0h, 0, 1Bh, 0D0h,
db 1Bh, 0F8h, 0, 0E3h, 0D0h, 0E3h, 0F8h, 5, 0B7h, 30h,
db 48h, 30h, 5, 0CFh, 58h, 30h, 58h, 5, 0D7h, 80h, 28h,
db 80h, 5, 0DFh, 0A8h, 20h, 0A8h, 5, 0E7h, 0D0h, 18h,
db 0D0h, 5, 0EFh, 0F8h, 10h, 0F8h, 0AAh
qh: db 10h, 82h, 85h, 88h, 10h, 85h, 80h, 8Bh, 10h, 87h,
                                                                                       .db
0000:3C8B 00 AB
                                          AB+
0000:3C8B 80 00 CB
0000:3C8B CB 80 00
0000:3C8B 80
                                                                                       .db
0000:3C8B D3 80 D3 A8+
                                                                                       .db
0000:3CF0 10 82 85 8B+
0000:3CF0 10 85 80 8B+
0000:3CF0 10 87 85 8B+
0000:3CF0 81 80 80 8B+
0000:3D08 05
                                           8B+draw_data_how_high:.db 10h, 82h, 85h, 88h, 10h, 85h, 80h, 88h, 10h, 87h,
                                                                                        ; DATA XREF: 0000:0C5010
.db 8Bh, 81h, 80h, 80h, 8Bh, 81h, 82h, 85h, 8Bh, 81h, 85h
.db 80h, 8Bh
                                                                                      .db 80h, 8Bh
.db 5
                                                 title_screen:
                                                                                                                                                                                                    ; DATA XREF: 0000:07F7 o
0000:3D08
0000:3D09 88 77
0000:3D0B 01
0000:3D0C 68 77
                                                                                                                                                                                                    ; RLE-encoded "DONKEY KONG" title
                                                                                        .dw VRAM_start+388h
                                                                                       .db
                                                                                        .dw VRAM start+368h
0000:3D0E 01
0000:3D0F 6C
0000:3D11 03
                                                                                        .db
                             77
                                                                                               VRAM_start+36Ch
                                                                                       .db
0000:3D12 49 77
                                                                                       .dw VRAM start+349h
0000:3D12 49
0000:3D14 05
0000:3D15 08
0000:3D17 01
                                                                                        .db
                                                                                        .dw VRAM_start+308h
                                                                                       .db
0000:3D18 E8 76
                                                                                        .dw VRAM_start+2E8h
                                                                                       .db
                                                                                               VRAM_start+2ECh
0000:3D1D 05
                                                                                       .db 5
0000:3D1E C8 76
                                                                                        .dw VRAM_start+2C8h
0000:3D1E C0 70
0000:3D20 05
0000:3D21 88 76
                                                                                       .db
                                                                                                VRAM_start+288h
                                                                                        .dw
0000:3D23 02
                                                                                       .db
0000:3D24 69 76
                                                                                        dw
                                                                                               VRAM_start+269h
0000:3D24 03 70
0000:3D26 02
0000:3D27 4A 76
                                                                                        .db
                                                                                       .dw VRAM_start+24Ah
0000:3D29 05
                                                                                        .db 5
0000:3D29 05
0000:3D2A 28 76
0000:3D2C 05
0000:3D2D E8 75
                                                                                       .dw VRAM_start+228h
.db 5
                                                                                        .dw VRAM_start+1E8h
0000:3D2F 01
0000:3D30 CA 75
0000:3D32 03
0000:3D33 A9 75
                                                                                        .db
                                                                                       .dw VRAM_start+1CAh
.db 3
                                                                                       .dw VRAM_start+1A9h
0000:3D35 01
                                                                                       .db
                                                                                       .dw VRAM_start+188h
.db 1
0000:3D36 88 75
0000:3D38 01
0000:3D39 8C 75
                                                                                       .dw VRAM_start+18Ch
0000:3D3B 05
                                                                                        dh •
0000:3D3C 48 75
0000:3D3E 01
                                                                                        .dw VRAM_start+148h
                                                                                       .db
0000:3D3F 28 75
                                                                                        .dw VRAM_start+128h
0000:3D41 01
                                                                                        dh '
                                                                                               VRAM_start+12Ah
0000:3D44 01
                                                                                       .db
0000:3D44 01
0000:3D45 2C 75
0000:3D47 01
0000:3D48 08 75
0000:3D4A 01
                                                                                        .dw VRAM_start+12Ch
                                                                                        .db
                                                                                               VRAM_start+108h
                                                                                       .dw
                                                                                       .db
0000:3D4B 0A 75
                                                                                        .dw VRAM_start+10Ah
0000:3D4E 0C 75
                                                                                        .db
                                                                                               VRAM_start+10Ch
                                                                                       .dw
0000:3D50 03
                                                                                        .db
0000:3D50 03
0000:3D51 C8 74
0000:3D53 03
0000:3D54 AA 74
                                                                                        .dw VRAM_start+0C8h
                                                                                       .dw VRAM_start+0AAh
0000:3D56 03
0000:3D57 88 74
0000:3D59 05
                                                                                       .db 3
                                                                                       .dw VRAM_start+88h
.db 5
0000:3D5A 2F 77
0000:3D5C 05
                                                                                       .dw VRAM_start+32Fh .db 5
0000:3D5D 0F 77
                                                                                        .dw VRAM_start+30Fh
                                                                                        .db
0000:3D60 F0 76
                                                                                       .dw VRAM_start+2F0h
0000:3D62 02
                                                                                        .db 2
0000:3D62 02
0000:3D63 CF 76
0000:3D65 02
                                                                                       .dw VRAM_start+2CFh
.db 2
0000:3D65 02
0000:3D66 D2 76
                                                                                        .dw VRAM start+2D2h
0000:3D68 05
0000:3D69 8F
0000:3D6B 05
                                                                                        .db
                                                                                       .dw
                             76
                                                                                               VRAM_start+28Fh
0000:3D6C 6F 76
                                                                                        .dw VRAM start+26Fh
0000:3D6E 01
                                                                                        .db
                                                                                               VRAM_start+24Fh
                                                                                        .db
0000:3D72 53 76
                                                                                        .dw VRAM start+253h
0000:3D72 33 70
0000:3D74 05
0000:3D75 2F 76
0000:3D77 05
                                                                                        .db
                                                                                               VRAM_start+22Fh
                                                                                       .db
0000:3D78 EF 75
                                                                                        .dw VRAM start+1EFh
                                                                                        .db
                                                                                                VRAM_start+1D0h
                                                                                        .dw
0000:3D7D 02
                                                                                       .db
0000:3D7E B1 75
                                                                                        dw
                                                                                               VRAM_start+1B1h
0000:3D7E BI 75
0000:3D80 05
0000:3D81 8F 75
                                                                                        .db
                                                                                               VRAM_start+18Fh
                                                                                        .dw
0000:3D83 03
                                                                                        .db
0000:3D84 50 75
                                                                                        .dw VRAM_start+150h
```

; SUBROUTINE

0000:3EC3

0000:3EC3 0000:3EC3 0000:3EC3

0000:3EC3 DD CB 00 46 sub\_0\_3EC3:

; CODE XREF:  $sub_0_3E88+1F^p$ ;  $sub_0_3E88+28^p$  ...

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 21/11/2013, 12:01:24 AM
 0000:3EC3
                                                                          bit
                                                                                         0, (ix+0)
 0000:3EC7 CA FA 3E
                                                                                         z. loc 0 3EFA
                                                                          jp
ld
 0000:3ECA 79
0000:3ECB DD 96 05
0000:3ECE D2 D3 3E
                                                                                        a, c
(ix+5)
nc, loc_0_3ED3
                                                                          sub
                                                                          дį
0000:3ECE D2 D3 3E

0000:3ED1 ED 44

0000:3ED3

0000:3ED3

0000:3ED3 3C

0000:3ED3 95

0000:3ED5 DA DE 3E

0000:3ED8 DD 96 0A

0000:3ED8 DD 96 A
                                                                          neg
                                           loc_0_3ED3:
                                                                                                                                                                      ; CODE XREF: sub_0_3EC3+B<sup>†</sup>j
                                                                                         1
                                                                          sub
                                                                          jp
sub
                                                                                         c, loc_0_3EDE (ix+0Ah)
                                                                                         nc, loc_0_3EFA
                                                                          jр
 0000:3EDE
0000:3EDE
0000:3EDE FD 7E 03
0000:3EE1 DD 96 03
                                           loc_0_3EDE:
                                                                                                                                                                      ; CODE XREF: sub_0_3EC3+12 j
                                                                          ld
                                                                                              (iy+3)
                                                                                         a, (iy
(ix+3)
                                                                          sub
 0000:3EE4 D2 E9 3E
0000:3EE7 ED 44
0000:3EE9
                                                                                         nc, loc_0_3EE9
                                                                          jp
neg
 0000:3EE9
                                           loc 0 3EE9:
                                                                                                                                                                      ; CODE XREF: sub 0 3EC3+211i
 0000:3EE9 94
0000:3EEA DA F3 3E
0000:3EED DD 96 09
0000:3EF0 D2 FA 3E
                                                                          sub
                                                                                         n
c, loc_0_3EF3
(ix+9)
                                                                          jp
sub
                                                                                         nc, loc_0_3EFA
                                                                          jp
0000:3EF0 D2 FA 3E
0000:3EF3
0000:3EF3 3A 60 60
0000:3EF6 3C
0000:3EF7 3C 60 60
0000:3EFA
0000:3EFA
                                                                                                                                                                      ; CODE XREF: sub_0_3EC3+27 j
                                           loc_0_3EF3:
                                                                          ld
                                                                                         a, (unk_0_6060)
                                                                          ld
                                                                                         (unk_0_6060), a
                                          loc_0_3EFA:
                                                                                                                                                                       ; CODE XREF: sub_0_3EC3+4 ij
0000:3EFA DD 19
0000:3EFA
0000:3EFC 10 C5
0000:3EFE C9
                                                                                                                                                                       ; sub_0_3EC3+18†j ...
                                                                                        ix, de sub_0_3EC3
                                                                          add
                                                                         djnz
                                                                          ret
 0000:3EFE
0000:3EFE
0000:3EFE
                                          ; End of function sub_0_3EC3
0000:3EFF 00 5C 76 49+byte_0_3EFF:
0000:3F09 7D 77 1E 19+byte_0_3FF9:
0000:3F09 1E 24 15 1E+
0000:3F09 16 10 11 1D+
0000:3F09 15 22 19 13+
0000:3F24 ;
0000:3F24 ;
0000:3F24 sub_0_3F24;
0000:3F24 sub_0_3F24:
0000:3F24 sub_0_3F24:
0000:3F27 11 E0 FF
0000:3F2A 36 9F
0000:3F2A 36 9F
0000:3F2B 36 9F
                                                                          .db 0, 5Ch, 76h, 49h, 4Ah, 1, 9, 8, 1, 3Fh
.db 7Dh, 77h, 1Eh, 19h, 1Eh, 24h, 15h, 1Eh, 14h,
                                                                                                                                                                       ; DATA XREF: 0000:36871o
                                                                                                                                                                        1Fh, 10h; DATA XREF: 0000:368910
                                                                                                                                                                         sub_0_24411o
                                                                         .db 1Fh, 16h, 10h, 11h, 1Dh, 15h, 22h, 19h, 13h, 11h, 10h .db 19h, 1Eh, 13h, 2Bh, 3Fh
                                                                       SUBROUTINE
                                                                                                                                                                      ; CODE XREF: 0000:081C↑p
                                                                                        hl, VRAM_start+0AFh
de, 0FFE0h
(hl), 9Fh; 'f'
hl, de
(hl), 9Eh; 'x'
                                                                          ld
                                                                         ld
ld
                                                                          add
0000:3F2C 19
0000:3F2D 36 9E
0000:3F2F C9
0000:3F2F
                                                                         1d
                                           ; End of function sub_0_3F24
0000:3F2F ; 0000:3F2F ; 0000:3F30 50 52 4F 47+aProgramWeWouldTeachYou_Tel_toky:.text "PROGRAM, WE WOULD TEACH YOU.*****TEL.TOKYO-JAPAN 044(244)2" 0000:3F30 52 41 4D 2C+ .text "151 EXTENTION 304 SYSTEM DESIGN IKEGAMI CO. LIM." 0000:3FA0 ; 0000:3FA0
0000:3FA0
0000:3FA0 CD A6 3F
0000:3FA3 C3 5F 0D
0000:3FA6
0000:3FA6
0000:3FA6
                                           loc_0_3FA0:
                                                                                                                                                                      ; CODE XREF: 0000:0CD1†j
                                                                                         sub_0_3FA6
                                                                         jp
                                                                                         loc_0_D5F
                                                                          SUBROUTINE
 0000:3FA6
0000:3FA6
0000:3FA6 3E 02
0000:3FA6 3E 02
0000:3FA8 F7
0000:3FAB 21 6C 77
0000:3FAB 21 6C 77
                                           sub_0_3FA6:
                                                                                                                                                                      ; CODE XREF: 0000:3FA01p
                                                                                        a, 2
30h
                                                                                                                                                                      ; return if level bit not set
                                                                          rst
                                                                          1d
                                                                                         hl, VRAM_start+36Ch
                                          loc 0 3FAE:
                                                                                                                                                                      ; CODE XREF: sub 0 3FA6+11-i
0000:3FAE 36 10 0000:3FB0 23 0000:3FB1 23 0000:3FB2 36 C0 0000:3FB4 21 8C 74 0000:3FB4 10 F5 0000:3FB9 C9 0000:3FB9 C9
                                                                          1d
                                                                                         (hl), 10h
                                                                          inc
                                                                                         hl
hl
                                                                                         (hl), 0C0h; 'L'
                                                                          ld
                                                                          1d
                                                                                         hl, VRAM_start+8Ch
                                                                          djnz
                                                                                         loc_0_3FAE
                                                                          ret
 0000:3FB9
                                           ; End of function sub_0_3FA6
 0000:3FBA 00 00 00 00+
0000:3FC0
                                                                          .db 0, 0, 0, 0, 0, 0
 0000:3FC0
0000:3FC0
0000:3FC0
                                                                       SUBROUTINE II
0000:3FC0
0000:3FC0 21 4D 69
0000:3FC3 36 03
0000:3FC5 2C
0000:3FC6 2C
0000:3FC7 C9
0000:3FC7
0000:3FC7
                                           sub 0 3FC0:
                                                                                                                                                                    ; CODE XREF: 0000:22851p
                                                                                        hl, soft_sprite_ram+4Dh
(hl), 3
1
                                                                          14
                                                                          ld
                                                                          inc
                                                                          inc
                                                                                         1
                                          ; End of function sub_0_3FC0
0000:3FC7

0000:3FC8 00 00 41 7F+

0000:3FC8 7F 41 00 00:

0000:3FC8 00 7F 7F 18+

0000:3FC8 00 7F 7F 18+

0000:3FC8 00 00 7F 7F+

0000:3FC8 49 49 41+

0000:3FC8 49 49 41+
                                                                         .db 0, 0, 41h, 7Fh, 7Fh, 41h, 0, 0, 0, 7Fh, 7Fh, 18h, 3Ch .db 76h, 63h, 41h, 0, 0, 7Fh, 7Fh, 49h, 49h, 49h, 41h .db 0, 1Ch, 3Eh, 63h, 41h, 49h, 79h, 79h, 0, 7Ch, 7Eh .db 13h, 11h, 13h, 7Eh, 7Ch, 0, 7Fh, 7Fh, 0Eh, 1Ch, 0Eh .db 7Fh, 7Fh, 0, 0, 0, 41h, 7Fh, 7Fh, 41h, 0, 0
                                    41+; end of 'ROM'
```

; Segment type: Regular
; segment 'RAM'

RAM\_start:

no of credits:

.org 6000h

.block 1

.block 1

; DATA XREF: 0000:02681o

; DATA XREF: display\_credits+5\u00f10 o ; 0000:073\u00er1\u00er1 ...

0000:6000 ?? 0000:6000

0000:6001

0000:6001 ??

```
.block 1
                                     unk 0 6003:
                                                                                                                                                      ; DATA XREF: sub 0 17B+51o
0000:6003 ??
                                                                   .block
0000:6004 ??
0000:6005 ??
0000:6005
                                                                   .block
                                                                                                                                                      ; DATA XREF: 0000:00C6 r; sub_0_17B+12 r ...
                                      nmi_sequencer: .block
0000:6006 ??
0000:6007 ??
0000:6008 ??
0000:6009*??
                                                                  .block 1
                                     attract_mode_flag:.block 1
sixteen_bit_countdown_msb:.block 1
eight_bit_countdown:.block 1
                                                                                                                                                      ; DATA XREF: return_NOT_16bit_timeout o 
; DATA XREF: return_NOT_8bit_timeout o 
; 0000:078E o ...
0000:6009*
                                                                                                                                                        DATA XREF: 0000:01EE†w 0000:06FE†r ...
0000:600A ??
                                     main_sequencer: .block 1
0000:600A ::
0000:600A
0000:600B ??
                                                                  .block
0000:600C ??
0000:600D ??
0000:600E ??
0000:600F ??
                                                                   .block
                                     unk_0_600D:
unk_0_600E:
two_players:
                                                                  .block
                                                                   .block
0000:6010 ??
0000:6010
0000:6011 ??
                                                                                                                                                      ; DATA XREF: 0000:00AC<sup>†</sup>w
; 0000:1502<sup>†</sup>r ...
                                     controller_in:
                                                                  .block
                                     last_raw_in:
                                                                  .block
0000:6012 ??
                                                                   .block
0000:6013 ??
0000:6014 ??
0000:6015 ??
0000:6016 ??
                                                                   .block
                                                                   .block
                                                                   .block
                                                                   .block
0000:6017 ??
0000:6018 ?? ??
                                                                  .block
                                     random_no:
                                                                                                                                                      ; DATA XREF: rand↑r
0000:6018
0000:601A ??
                                                                                                                                                      ; rand+B<sup>↑</sup>w ...
; DATA XREF: rand+3<sup>↑</sup>o
                                      gen_purpose_timer:.block 1
0000:601A ??
0000:601B ??
0000:601C ??
                                                                                                                                                         0000:00B5†o ...
                                                                  .block
                                                                  .block
0000:601D ??
0000:601E ??
0000:601F ??
0000:6020 ??
                                                                  .block
                                                                   .block
                                                                   .block
                                                                                                                                                      ; DATA XREF: sub 0 207+41o
                                     lives_per_game: .block
0000:6020
0000:6021
0000:6021
                                                                                                                                                         0000:0922|r ...
DATA XREF: sub_0_350+1E|o
7/10/15/20K
                                                                  .block 1
                                     bonus_setting:
                                                                                                                                                        DATA XREF: sub_0_17B+27\dagger o
DATA XREF: 0000:0087\dagger r
0000:099F\dagger r ...
0000:6022 ?? ?? ?? ?? coinage:
                                                                  .block 4
0000:6026 ??
0000:6026
0000:6027 ??
                                      upright:
                                                                  .block 1
                                                                  .block
0000:6028 ??
                                                                   .block
0000:6028 ??

0000:6029 ??

0000:602A ??

0000:602C ??

0000:602C ??

0000:602E ??
                                                                  .block
                                                                  .block
                                                                   block
                                                                   .block
.block
0000:602F ??
                                                                   .block
0000:6030 ??
0000:6030
0000:6031 ??
                                     unk_0_6030:
                                                                   .block
                                                                                                                                                      ; DATA XREF: 0000:1499 o
                                                                                                                                                      ; 0000:14FC1o
                                      unk_0_6031:
                                                                  .block 1
0000:6032 ??
                                     unk_0_6032:
                                                                  .block 1
                                                                                                                                                      ; DATA XREF: 0000:158A<sup>†</sup>o
; 0000:15B2<sup>†</sup>w
0000:6032 FF
0000:6033 ??
0000:6034 ??
                                                                  .block
                                                                                                                                                      ; DATA XREF: 0000:14DC10
                                      unk_0_6034:
                                                                   .block
0000:6034 ??

0000:6035 ??

0000:6036 ??

0000:6037 ??

0000:6038 ??

0000:6039 ??
                                     unk_0_6035:
unk_0_6036:
                                                                  .block
                                                                   .block
                                     unk_0_6038:
                                                                   .block
                                                                   .block
                                                                   .block
                                     unk_0_603A:
0000:603C ??
0000:603D ??
0000:603E ??
0000:603F ??
                                                                   .block
                                                                   block
                                                                   .block
                                                                                                                                                      ; DATA XREF: 0000:093E↑o
0000:6040 ??
                                     pl level data:
                                                                  .block
0000:6040
0000:6040
0000:6041 ??
                                                                                                                                                      ; 0000:09AB1o
                                                                                                                                                       ; game init data copied here
                                                                  .block
0000:6042 ?? ??
0000:6044 ??
0000:6045 ??
0000:6046 ??
                                                                   .block
                                                                                                                                                      ; ptr sequence data
                                                                   .block
                                                                   .block
                                                                   .block
0000:6047 ??
0000:6048 ??
0000:6048
                                                                   .block
                                     p2_level_data:
                                                                                                                                                      ; DATA XREF: 0000:0909\cdot o ; 0000:091F\cdot o ...
0000:6049 ??
                                                                  .block
0000:604A ??
0000:604B ??
0000:604C ??
0000:604D ??
                                                                   .block
                                                                   .block
                                                                  .block
                                                                   .block
0000:604E
0000:604F
                                                                  .block
0000:6050 ??
                                                                   .block
0000:6052 ??
0000:6053 ??
0000:6054 ??
                                                                   .block
                                                                  .block
0000:6055 ??
0000:6056 ??
0000:6057 ??
0000:6058 ??
                                                                   .block
                                                                  .block
                                                                   .block
0000:6059 ??
0000:605A ??
0000:605B ??
0000:605C ??
                                                                   .block
                                                                  .block
                                                                   .block
0000:605D ??
0000:605E ??
0000:605F ??
0000:6060 ??
                                                                   .block
                                                                   .block
                                                                   .block
                                     unk 0 6060:
                                                                   .block
0000:6061
0000:6062
                                                                   .block
0000:6063 ??
0000:6064 ??
                                                                  .block
                                                                   .block
0000:6065
0000:6066
                                                                   .block
0000:6067
                 ??
                                                                   .block
0000:6068 ??
0000:6069 ??
0000:606A ??
                                                                   .block
                                                                   .block
                                                                  .block
0000:606B ??
                                                                   .block
0000:606C ??
                                                                  .block
```

```
0000:606D ??
                                                                      .block 1
0000:606E ??
0000:6070 ??
0000:6071 ??
0000:6073 ??
0000:6073 ??
0000:6075 ??
0000:6076 ??
0000:6077 ??
0000:6078 ??
0000:606E ??
                                                                       .block
                                                                      .block
.block
.block
                                                                      .block
                                                                       .block
                                                                      .block
                                                                       .block
                                                                       .block
                                                                       .block
                                                                       .block
0000:607A ??
0000:607B ??
0000:607C ??
0000:607D ??
                                                                       .block
                                                                      .block
                                                                       .block
0000:607E ?? . .block 1
0000:607F ?? .block 1
                                                                                                                                                                DATA XREF: update_sounds o
                                                                                                                                                                 stop_sound+6fo ...
DATA XREF: update_sounds+2Efo
0000:12A8fw
0000:6088 ??
0000:6088
0000:6089 ??
                                        unk_0_6088:
                                                                      .block 1
                                                                                                                                                                 DATA XREF: 0000:067A<sup>†</sup>w
0000:0CC0<sup>†</sup>w ...
                                       unk_0_6089:
                                                                      .block 1
0000:6089
                                                                                                                                                                 DATA XREF: 0000:0ADB10
0000:608A ??
0000:608A
0000:608B ??
                                       unk_0_608A:
                                                                      .block 1
                                       unk 0 608B:
                                                                      .block
                                                                                                                                                              ; DATA XREF: update sounds+1A o
0000:608C ??
0000:608D ??
0000:608E ??
0000:608F ??
                                                                       block
                                                                      .block
.block
                                                                      .block
0000:6090 ??
0000:6091 ??
0000:6092 ??
0000:6093 ??
                                                                       .block
                                                                      .block
                                                                       .block
0000:6093 ??
0000:6094 ??
0000:6095 ??
0000:6096 ??
0000:6097 ??
0000:6098 ??
0000:6098 ??
                                                                      .block
                                                                      .block
                                                                       .block
                                                                       .block
                                                                       .block
                                                                       .block
                                                                       .block
                                                                       .block
0000:609E ??
0000:609E ??
0000:609F ??
0000:60AD ??
0000:60A2 ??
                                                                      .block
                                                                       block
                                                                      .block
.block
                                                                      .block
0000:60A3 ??
0000:60A4 ??
0000:60A5 ??
                                                                       .block
                                                                       .block
                                                                      .block
0000:60A6 ??
0000:60A7 ??
0000:60A8 ??
0000:60A9 ??
                                                                       .block
                                                                      .block
                                                                       .block
0000:60AA ??
0000:60AB ??
0000:60AC ??
0000:60AD ??
                                                                       .block
                                                                       .block
                                                                       .block
                                                                       .block
0000:60AF ??
0000:60B0 ??
                                                                       .block
                                        unk_0_60B0:
0000:60B1 ??
0000:60B2 ??
                                        unk 0 60B1:
                                                                       .block
                                        unk_0_60B2:
                                                                       .block
                                                                                                                                                              ; DATA XREF: 0000:01C91o
                                                                                                                                                              0000:60B2 ::
0000:60B2
0000:60B3 ??
                                        unk_0_60B3:
                                                                      .block
0000:60B4 ??
0000:60B5 ??
                                        unk_0_60B4:
unk_0_60B5:
                                                                       .block
                                                                      .block
0000:60B5 ::
0000:60B5 ??
                                        unk_0_60B6:
                                                                      .block 1
                                        unk_0_60B7:
unk_0_60B8:
0000:60B7
                                                                       .block
0000:60B7 ??
0000:60B8 ??
0000:60B9 ??
                                                                       .block
                                                                      .block 1
                                                                                                                                                              ; DATA XREF: sub_0_51C+24\u00e10 o ; sub_0_5C6+14\u00e10 o
0000:60BA ??
0000:60BA
0000:60BB ??
                                        unk_0_60BA:
                                                                      .block 1
                                                                      .block
0000:60BC
                  ??
                                                                       .block
0000:60BD ??
0000:60BE ??
0000:60BF ??
0000:60CO ??
                                                                       .block
                                                                       .block
                                                                                                                                                              ; DATA XREF: 0000:0291 o
                                       unk 0 60C0:
                                                                      .block
0000:60C0 ??

0000:60C1 ??

0000:60C2 ??

0000:60C3 ??

0000:60C4 ??

0000:60C5 ??

0000:60C6 ??
                                                                                                                                                              ; sub_0_309F+11c
                                                                      .block
                                                                       .block
                                                                       .block
                                                                       .block
                                                                      .block
0000:60C7 ??
0000:60C8 ??
0000:60C9 ??
0000:60CA ??
                                                                       .block
                                                                      .block
                                                                       .block
0000:60CB ??
0000:60CC ??
0000:60CE ??
                                                                      .block
                                                                      .block
                                                                       .block
0000:60CE ??
0000:60D0 ??
0000:60D1 ??
                                                                       .block
                                                                       .block
0000:60D2 ??
                                                                       .block
0000:60D3 ??
0000:60D4 ??
                                                                       .block
0000:60D5 ??
0000:60D6 ??
                                                                      .block
                                                                       .block
0000:60D7
0000:60D8
                                                                       .block
0000:60D9 ??
                                                                       .block
0000:60DA ??
0000:60DB ??
0000:60DC ??
                                                                       .block
                                                                       .block
                                                                      .block
0000:60DD ??
                                                                       .block
0000:60DE ??
                                                                      .block
```

.block .block

.block .block .block .block

.block

.block .block .block

.block

.block

0000:61EF ?? 0000:61F0 ?? 0000:61F1 ?? 0000:61F3 ?? 0000:61F4 ?? 0000:61F5 ??

0000:61F6 ??

0000:61F7 ?? 0000:61F8 ?? 0000:61F9 ??

0000:61FA ??

0000:61FB ??

```
.block 1
0000:61FD ??
                                                               .block
0000:61FE ??
0000:61FF ??
0000:6200 ??
                                                               .block
                                                              .block
                                   is_mario_alive:
                                                                                                                                               ; DATA XREF: return_if_mario_not_alive r
0000:6200
0000:6201
0000:6202
??
0000:6203
??
                                                                                                                                               ; 0000:0BE31r ...
                                                               block
                                    unk_0_6202:
                                                                                                                                               ; DATA XREF: animate_kong_and_pauline+D6 r
                                    mario_x:
                                                               .block
0000:6203
                                                                                                                                               ; animate_kong_and_pauline+10Efr ..
0000:6204 ??
0000:6205 ??
0000:6205
                                    unk_0_6204:
                                                               hlock
                                                                                                                                              ; DATA XREF: sub_0_19DA+13|r
; sub_0_1A33+22|r ...
                                   mario_y:
                                                               .block 1
0000:6206 ??
0000:6207 ??
0000:6207
0000:6208 ??
                                   unk _0_6206:
                                                               .block 1
                                                                                                                                              ; DATA XREF: sub_0_1AC3+54<sup>o</sup>
                                    mario_sprite_tile:.block 1
                                                                                                                                               ; sub_0_1AC3+9D1o ...
                                    mario_hflip_pal:.block 1
0000:6209 ??
0000:620A ??
0000:620B ??
                                                               .block
                                   unk_0_6209
                                                                                                                                               ; DATA XREF: 0000:0FA5 o
                                   .block 1
mario_x_before_jump:.block 1
mario_y_before_jump:.block 1
0000:620C
                ??
0000:620D ??
0000:620E ??
0000:620E
                                                               .block
                                                                                                                                              ; DATA XREF: sub_0_laC3+E6|w; sub_0_lAC3+1B6|o...; DATA XREF: sub_0_laC3+1Ce|r; sub_0_laC3+1EA|r...; DATA XREF: sub_0_lAC3+B0|o; sub_0_lF46+F|w...
                                   unk_0_620E:
0000:620F ??
                                   unk_0_620F:
                                                              .block 1
0000:620F
0000:6210 ??
                                    unk_0_6210:
                                                              .block 1
0000:6210
0000:6211 ??
                                    unk 0 6211:
                                                               block 1
0000:6211 ??
0000:6212 ??
0000:6213 ??
0000:6214 ??
                                    unk_0_6211:
unk_0_6212:
unk_0_6213:
unk_0_6214:
                                                               .block
.block
                                                               .block
0000:6215 ??
0000:6216 ??
0000:6217 ??
0000:6218 ??
                                    mario_climbing:
mario_jumping:
unk_0_6217:
unk_0_6218:
                                                               .block
                                                               .block
                                                               .block
                                                               .block
0000:6219 ??
0000:621A ??
0000:621A
                                    unk_0_6219:
unk_0_621A:
                                                               .block
                                                                                                                                               ; DATA XREF: sub_0_1AC3+5D↑o
                                                                                                                                               ; sub_0_1AC3+2B3|r ...
0000:621B ??
                                                               .block 1
                                                                                                                                              ; DATA XREF: sub_0_1AC3+262\uparrow o; sub_0_1AC3+2BD\uparrow r
0000:621C ??
                                   unk_0_621C:
                                                               .block 1
0000:621C
0000:621D ??
                                                               .block 1
                                                                                                                                              ; DATA XREF: sub_0_1AC3+7 r
0000:621E ??
                                   unk 0 621E:
                                                               .block 1
0000:621E
0000:621F ??
                                                                                                                                               ; sub_0_1AC3+92\(\frac{1}{2}\) \cdots
                                    unk_0_621F:
                                                               .block
0000:6220 ??
0000:6221 ??
0000:6222 ??
0000:6223 ??
                                    unk_0_6220:
unk_0_6221:
                                                               .block
                                                               block
                                    unk_0_6222:
                                                               .block
.block
                                    unk 0 6224:
0000:6224 ??
                                                               .block
0000:6225 ??
0000:6226 ??
0000:6227 ??
                                                               .block
                                    unk_0_6225:
                                   level_type:
                                                                                                                                               ; DATA XREF: sub_0_30+14<sup>†</sup>o
                                                               .block 1
0000:6227
                                                                                                                                                 0000:01EA1w
                                                                                                                                                 DATA XREF: 0000:01D9 w
0000:6227
0000:6228 ??
0000:6228
0000:6229 ??
                                   life_no:
                                                               .block 1
                                                                                                                                                 sub_0_350+28\rangle o ...
DATA XREF: 0000:01D6\rangle w
                                   level:
                                                               .block 1
0000:6229
0000:6229
0000:622A ?? ??
0000:622C ??
                                                                                                                                               ; sub_0_37F+15\r ...
; keeps incrementing
                                                               .block 2
                                                                                                                                              ; DATA XREF: 0000:0A6E†o; 0000:12F6†w ...
                                    unk_0_622C:
                                                               .block 1
                                    awarded_bonus_life:.block 1
unk_0_622E: .block 1
                                                                                                                                              ; DATA XREF: 0000:0C05 r ; 0000:0C0E w ...
0000:622E
0000:622F 22
                                   unk_0_622F:
                                                               block
0000:6230 ??
0000:6231 ??
                                                               .block
0000:6232 ??
                                                               .block
0000:6233 ??
                                                               .block
0000:6233 ::
0000:6234 ??
0000:6235 ??
                                                                .block
                                                               .block
0000:6236 ??
0000:6237 ??
0000:6238 ??
0000:6239 ??
                                                               .block
                                                               .block
                                                               .block
0000:623A ??
0000:623B ??
0000:623C ??
                                                               .block
                                                               .block
0000:623D ??
                                                               .block
0000:623E ??
0000:623F ??
0000:6240 ??
0000:6241 ??
                                                               .block
                                                               .block
                                                               .block
                                                               .block
0000:6242
0000:6243
                                                               .block
0000:6244 ??
0000:6245 ??
                                                               .block
                                                               .block
0000:6246 ??
0000:6247 ??
0000:6248 ??
                                                               .block
                                                               .block
                                                               .block
0000:6249 ??
0000:624A ??
0000:624B ??
0000:624C ??
                                                               .block
                                                               .block
                                                               .block
                                                               .block
0000:624D ??
0000:624E ??
0000:624F ??
                                                               .block
                                                               .block
0000:6250 ??
                                                               .block
0000:6251
                                                               .block
0000:6251 ??
0000:6252 ??
0000:6253 ??
0000:6254 ??
                                                               .block
                                                               .block
                                                               .block
0000:6257 ??
                                                               .block
                                                               .block
                                                               .block
0000:625B ??
                                                               .block
0000:625C ??
0000:625D ??
0000:625E ??
                                                               block
                                                                .block
                                                               .block
0000:625F
                                                               .block
0000:6260 ??
                                                               .block
```

```
.block 1
0000:6262 ??
                                                                     .block
0000:6263 ??
0000:6264 ??
0000:6265 ??
                                                                     .block
.block
.block
0000:6266 ??
0000:6267 ??
0000:6268 ??
0000:6269 ??
                                                                     .block
                                                                     block
                                                                     .block
0000:626A ??
0000:626B ??
0000:626C ??
0000:626D ??
                                                                     .block
                                                                     .block
                                                                     .block
                                                                     .block
0000:626E ??
0000:626F ??
0000:6270 ??
0000:6271 ??
                                                                     .block
                                                                    .block
                                                                     .block
0000:6271 ::
0000:6272 ??
0000:6273 ??
0000:6274 ??
                                                                     .block
0000:6272 ??
0000:6273 ??
0000:6274 ??
0000:6275 ??
                                                                     .block
                                                                     .block
0000:6276 ??
0000:6277 ??
0000:6278 ??
0000:6279 ??
                                                                     .block
                                                                     .block
                                                                     .block
                                                                     .block
                                                                     .block
0000:627C ??
0000:627D ??
                                                                     .block
                                                                     block
0000:627E ??
0000:627E ??
0000:627F ??
0000:6280 ??
                                                                     .block
.block
                                      unk_0_6280:
                                                                                                                                                           ; DATA XREF: 0000:0F64 o
                                                                     .block
                                                                                                                                                           ; 0000:0F72†o ...
0000:6280
0000:6280
0000:6281 ??
0000:6282 ??
0000:6283 ??
                                                                     .block
                                                                     .block
                                                                     .block
0000:6283 ??
0000:6284 ??
0000:6285 ??
0000:6286 ??
0000:6287 ??
0000:6288 ??
0000:6288 ??
                                                                     .block
                                                                     .block
                                                                     .block
                                       unk_0_6288:
                                                                     .block
                                                                                                                                                           ; DATA XREF: sub 0 2207+E o
                                                                      block
                                                                     .block
                                                                     .block
                                                                     .block
0000:628E ??
0000:628F ??
                                                                     .block
                                                                      block
0000:6290 ??
0000:6290
                                       unk_0_6290:
                                                                    .block
                                                                                                                                                           ; DATA XREF: sub_0_1A33+53\u00f30 o ; sub_0_1E57+29\u00e9r
0000:6291 ??
0000:6292 ??
0000:6293 ??
0000:6294 ??
                                       unk 0 6291:
                                                                     .block
                                                                     .block
                                        unk_0_6292:
                                                                                                                                                           ; DATA XREF: sub_0_1A33+481o
                                                                     .block
0000:6295 ??
0000:6296 ??
0000:6297 ??
0000:6298 ??
                                                                     .block
                                                                     .block
                                                                     .block
0000:6298 ??

0000:6299 ??

0000:629A ??

0000:629B ??

0000:629C ??

0000:629D ??
                                                                     .block
                                                                     .block
                                                                     .block
                                                                     .block
                                                                     .block
                                      unk 0 62A0:
                                                                                                                                                           ; DATA XREF: 0000:16BC\u00fcw
0000:62A0 ??
                                                                    .block 1
0000:62A0
                                                                                                                                                              0000:16D21w
0000:62A0 ??
0000:62A2 ??
                                       unk_0_62A1:
                                                                     .block 1
                                                                                                                                                           ; DATA XREF: sub_0_2602+14\righto
                                                                     .block
                                                                                                                                                           ; DATA XREF: sub_0_2523+2E r ; sub_0_262F c ...
                                      unk 0 62A3:
0000:62A3 ??
                                                                    .block 1
0000:62A3
0000:62A4 ??
0000:62A5 ??
                                                                                                                                                           ; DATA XREF: sub_0_2679+7\dagger o ; DATA XREF: sub_0_2523+39\dagger r ; sub_0_2679+14\dagger o ; DATA XREF: sub_0_27DA\dagger o
                                       unk_0_62A5:
                                                                     .block
0000:62A6 ??
                                       unk_0_62A6:
                                                                    .block 1
unk_0_62A7:
unk_0_62A8:
                                                                     .block
                                                                     .block
0000:62A9 ??
0000:62AA ??
0000:62AB ??
0000:62AC ??
                                                                     .block
                                      unk_0_62AA:
                                                                     .block
                                      unk 0 62AC:
                                                                     .block
0000:62AC ::
0000:62AD ??
0000:62AE ??
0000:62AF ??
                                                                     .block
                                      unk_0_62AF:
                                                                                                                                                           ; DATA XREF: 0000:0AA6<sup>†</sup>w
                                                                    .block 1
                                                                                                                                                           ; 0000:0AEB1r
0000:62AF
                                                                                                                                                           ; DATA XREF: 0000:063A\r;
; 0000:0F8E\rangle o ...
; DATA XREF: sub_0_2C03+9\rangle r;
sub_0_2C8F+4B\rangle o ...
0000:62B0 ??
0000:62B0
0000:62B1 ??
0000:62B1
                                      unk_0_62B0:
                                                                    .block 1
                                      unk 0 62B1:
                                                                    .block 1
0000:62B2 ??
0000:62B3 ??
0000:62B4 ??
                                      unk_0_62B2:
unk_0_62B3:
unk_0_62B4:
                                                                     block 1
                                                                    .block
                                                                                                                                                           ; DATA XREF: sub_0_2FCB+3↑o
0000:62B5 ??
0000:62B6 ??
0000:62B7 ??
0000:62B8 ??
                                                                     .block
                                                                     .block
                                                                     .block
                                                                                                                                                           ; DATA XREF: sub_0_3A2+9↑o
                                       unk 0 62B8:
                                                                     .block
0000:62B9 ??
0000:62BA ??
0000:62BA
                                       unk_0_62B9:
unk_0_62BA:
                                                                     .block
                                                                     .block
                                                                                                                                                           ; DATA XREF: sub_0_3A2+2F\dagger
                                                                                                                                                           ; sub_0_3A2+3E↑w
0000:62BB ??
                                                                     .block
0000:62BC ??
0000:62BD ??
0000:62BE ??
                                                                     .block
                                                                     .block
0000:62BF ??
                                                                     .block
0000:62C0 ??
0000:62C1 ??
                                                                     .block
0000:62C2 ??
0000:62C3 ??
                                                                     .block
                                                                     .block
                                                                     .block
0000:62C6 ??
                                                                     .block
0000:62C7 ??
0000:62C8 ??
0000:62C9 ??
                                                                     .block
                                                                      .block
                                                                     .block
0000:62CA ??
                                                                     .block
0000:62CB ??
                                                                     .block
```

.block .block .block .block .block .block .block .block .block

.block

.block .block .block

.block

.block

0000:6339 ??

0000:633A ?? 0000:633B ?? 0000:633C ??

0000:633D ??

0000:633E ??

```
.block 1
0000:6340 ??
                                                                               unk 0 6340:
                                                                                                                                            .block 1
0000:6341 ??
0000:6341
0000:6342 ??
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_1DBD+E\uparrow w; 0000:1E4A\uparrow o
                                                                               unk_0_6341:
                                                                                                                                           .block 1
                                                                                unk_0_6342:
0000:6343 ??
0000:6344 ??
0000:6345 ??
0000:6345
                                                                              unk_0_6343:
                                                                                                                                           .block 1
                                                                                                                                            block
                                                                                                                                                                                                                                                                                                                         ; DATA XREF: sub_0_1E96\r; sub_0_1E96+60\r\; sub_0_1E96+60\r\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\operator\opera
                                                                              unk_0_6345:
                                                                                                                                           .block
0000:6346 ??
                                                                              unk_0_6346:
                                                                                                                                          .block 1
0000:6346
0000:6347 ??
0000:6348 ??
                                                                                                                                           .block
                                                                              unk_0_6348:
                                                                                                                                           .block
0000:6349 ??
0000:634A ??
0000:634B ??
0000:634C ??
                                                                                                                                           .block
                                                                                                                                           .block
                                                                                                                                            .block
0000:634D ??
0000:634E ??
0000:634F ??
                                                                                                                                            .block
                                                                                                                                            .block
0000:6350 ??
                                                                               unk 0 6350:
                                                                                                                                            .block
0000:6351 ??
0000:6352 ??
0000:6353 ??
0000:6354 ??
                                                                               unk_0_6351:
unk_0_6352:
unk_0_6353:
                                                                                                                                            .block
                                                                                                                                            .block
                                                                                                                                           .block
                                                                               unk 0 6354:
                                                                                                                                            .block
                                                                                                                                            .block
0000:6357 ??
0000:6358 ??
                                                                                                                                           .block
                                                                                                                                            block
0000:6358 ??
0000:6359 ??
0000:635A ??
0000:635B ??
                                                                                                                                           .block
.block
                                                                                                                                           .block
0000:635C ??
0000:635D ??
0000:635E ??
0000:635F ??
                                                                                                                                            .block
                                                                                                                                            .block
                                                                                                                                           .block
                                                                                                                                            .block
0000:6360 ??
0000:6361 ??
0000:6362 ??
                                                                                                                                            .block
                                                                                                                                           .block
0000:6363 ??
                                                                                                                                            .block
0000:6364 ??
0000:6365 ??
0000:6366 ??
0000:6367 ??
                                                                                                                                            .block
                                                                                                                                            .block
                                                                                                                                            .block
                                                                                                                                            .block
                                                                                                                                            .block
0000:636A ??
0000:636B ??
                                                                                                                                           .block
                                                                                                                                            block
0000:636C
0000:636D
                                                                                                                                           .block
.block
0000:636E ??
                                                                                                                                            .block
 0000:636F ??
                                                                                                                                            .block
0000:6370
0000:6371
                                  ??
                                                                                                                                             .block
                                                                                                                                           .block
0000:6372 ??
0000:6373 ??
                                                                                                                                            .block
                                                                                                                                           .block
0000:6374 ??
0000:6375 ??
                                                                                                                                            .block
0000:6375 ??

0000:6376 ??

0000:6377 ??

0000:6378 ??

0000:6374 ??
                                                                                                                                            .block
                                                                                                                                           .block
                                                                                                                                            .block
                                                                                                                                            .block
                                                                                                                                            .block
0000:637D ??
                                                                                                                                            .block
 0000:637E ??
                                                                                                                                            block
0000:637E ::
0000:637F ??
0000:6380 ??
                                                                                                                                           .block
.block
                                                                               unk_0_6380:
0000:6381 ??
0000:6382 ??
0000:6383 ??
0000:6384 ??
                                                                               unk_0_6381:
unk_0_6382:
unk_0_6383:
unk_0_6384:
                                                                                                                                            .block
                                                                                                                                                                                                                                                                                                                         ; DATA XREF: sub 0 37F+7 o
                                                                                                                                            block
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:02D1\u00f30
; DATA XREF: sub_0_37F\u00f30
; DATA XREF: 0000:0A76\u00f3r
                                                                                                                                             .block
                                                                                                                                            .block
0000:6385 ??
                                                                               intro_sequencer:.block
0000:6385
0000:6386 ??
0000:6387 ??
                                                                                                                                                                                                                                                                                                                          ; 0000:0ABA1o
                                                                               unk_0_6386:
unk_0_6387:
                                                                                                                                           .block
                                                                                                                                            .block
                                                                                                                                                                                                                                                                                                                         ; DATA XREF: 0000:161f<sup>†</sup>r; 0000:1633<sup>†</sup>r ...
0000:6388 ??
                                                                               unk_0_6388:
                                                                                                                                           .block 1
0000:6388
0000:6389 ??
                                                                                unk_0_6389:
                                                                                                                                          .block
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:07CB|r
0000:638A ??
                                                                               unk 0 638A:
                                                                                                                                           .block 1
0000:638A
0000:638B ??
0000:638C ??
                                                                                                                                                                                                                                                                                                                          ; 0000:07D51w
                                                                                unk_0_638B:
                                                                                                                                           .block
0000:638C ??
0000:638D ??
                                                                               bonus timer:
                                                                                                                                            .block 1
                                                                               unk_0_638D:
                                                                                                                                           .block 1
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:0B581w
0000:638D
0000:638E ??
                                                                                                                                                                                                                                                                                                                           ; 0000:0B94\r ...
; DATA XREF: 0000:0AD4\w
                                                                               unk_0_638E:
                                                                                                                                         .block 1
                                                                                                                                                                                                                                                                                                                                0000:0B3B1r ...
DATA XREF: sub_0_2C03+4C1w
0000:638E
0000:638F ??
                                                                               unk 0 638F:
                                                                                                                                        .block 1
                                                                                                                                                                                                                                                                                                                          / BATA XREF: SUD_0_2C05+4c|W

/ SUD_0_2C05+4c|W

/ DATA XREF: animate_kong_and_pauline+2B\dagger

/ animate_kong_and_pauline+8B\dagger ...
0000:638F
0000:6390 ??
0000:6390
                                                                               kong_thrash_tmr:.block 1
                                                                              kong_thrash_flag:.block 1
unk_0_6392: .block 1
barrel_deployment:.block 1
unk_0_6394: .block 1
0000:6391 ??
0000:6392 ??
0000:6392 ::
0000:6393 ??
0000:6394 ??
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_2ED4+4A1r
0000:6394
0000:6395
0000:6395
??
                                                                                                                                                                                                                                                                                                                          ; sub_0_2ED4+75†0
; DATA XREF: sub_0_2ED4+7C†0
; sub_0_2ED4+87†w ...
                                                                               unk_0_6395:
                                                                                                                                           .block 1
0000:6396 ??
                                                                              unk 0 6396:
                                                                                                                                           .block 1
0000:6397 ??
0000:6398 ??
0000:6399 ??
                                                                              .block 1
mario_on_elevator:.block
                                                                                                                                          .block 1
                                                                               unk 0 639A:
0000:639A ??
                                                                                                                                           .block 1
 0000:639B ??
0000:639B
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_2523<sup>†</sup>o; sub_0_2523+65<sup>†</sup>w
                                                                               unk_0_639B:
                                                                                                                                            .block
0000:639C ??
0000:639D ??
                                                                                                                                           .block 1
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:127f1r
                                                                              unk 0 639D:
                                                                                                                                           .block 1
0000:639D
0000:639E ??
                                                                                                                                                                                                                                                                                                                          ; 0000:1295\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagg
                                                                               unk_0_639E:
                                                                                                                                          .block 1
0000:639E
                                                                                                                                                                                                                                                                                                                          ; 0000:12B2<sup>†</sup>o
 0000:639F ??
                                                                                                                                           block 1
0000:63A0 ??
0000:63A0
                                                                               unk_0_63A0:
                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_3A2+39\w0000:0768\w0000.
                                                                               unk_0_63A1:
unk_0_63A2:
0000:63A1 ??
                                                                                                                                           .block 1
0000:63A2 ??
                                                                                                                                           .block 1
```

```
0000:63A3 ??
                                               unk_0_63A3:
                                                                                 .block 1
0000:63A3 ??
0000:63A5 ??
0000:63A6 ??
0000:63A7 ??
0000:63A8 ??
0000:63A8 ??
0000:63A8 ??
0000:63A6 ??
0000:63AC ??
0000:63AC ??
0000:63AC ??
                                             unk_0_63A4:
unk_0_63A5:
unk_0_63A6:
unk_0_63A7:
                                                                                  .block
                                                                                 .block
.block
.block
                                                                                                                                                                                       ; DATA XREF: 0000:0BFA\u00e10
                                                                                                                                                                                       ; 0000:0C431r ...
                                              unk_0_63A8:
                                                                                 block
                                                                                 .block
.block
                                             unk 0 63AB:
                                                                                  .block
                                                                                  .block
                                              unk_0_63AD:
                                                                                  .block
0000:63AF ??
0000:63B0 ??
0000:63B1 ??
0000:63B2 ??
                                              unk_0_63AF:
unk_0_63B0:
unk_0_63B1:
unk_0_63B2:
                                                                                  .block
                                                                                 .block
                                                                                  .block
0000:63B2 ??
0000:63B3 ??
0000:63B4 ??
0000:63B5 ??
0000:63B6 ??
0000:63B8 ??
0000:63B8 ??
                                             unk_0_63B3:
unk_0_63B4:
unk_0_63B5:
                                                                                  .block
                                                                                 .block
                                                                                  .block
                                              unk_0_63B7:
unk_0_63B8:
                                                                                  .block
                                                                                 .block
                                                                                                                                                                                       ; DATA XREF: 0000:06351r
; 0000:06AC10
0000:63B9 ??
                                              unk_0_63B9:
                                                                                 .block 1
0000:63BA ??
0000:63BB ??
                                                                                  .block
0000:63BB ??

0000:63BC ??

0000:63BD ??

0000:63BF ??

0000:63C0 ??
                                                                                  .block
                                                                                  block
                                                                                 .block
.block
                                             unk_0_63C0:
                                                                                 .block
0000:63C1 ??
0000:63C2 ??
0000:63C3 ??
0000:63C4 ??
                                                                                 .block
.block
.block
                                             unk_0_63C2:
0000:63C4 ??
0000:63C5 ??
0000:63C6 ??
0000:63C8 ??
0000:63C8 ??
0000:63C8 ??
0000:63CB ??
0000:63CB ??
0000:63CC ??
0000:63CF ??
0000:63CF ??
0000:63D1 ??
0000:63D3 ??
                                             unk 0 63C4:
                                                                                  .block
                                                                                  .block
                                                                                 .block
                                             unk 0 63C8:
                                                                                  .block
                                                                                  .block
                                                                                  .block
                                                                                  .block
                                              attract_movement_entry:.block 1
                                                                                                                                                                                      ; DATA XREF: next attract action+3 o
                                                                                 .block
                                                                                 .block
                                                                                  block
                                                                                 .block
.block
0000:63D3 ??
0000:63D4 ??
0000:63D5 ??
0000:63D6 ??
                                                                                 .block
                                                                                 .block
.block
0000:63D7 ??
0000:63D8 ??
0000:63D9 ??
0000:63DA ??
                                                                                  .block
                                                                                 .block
                                                                                  .block
0000:63DA ??

0000:63DB ??

0000:63DC ??

0000:63DD ??

0000:63DF ??
                                                                                 .block
.block
                                                                                  .block
                                                                                  .block
                                                                                  .block
                                             unk_0_63E0:
                                                                                                                                                                                      ; DATA XREF: sub_0_31B1+7↑o
0000:63E1 ??
0000:63E2 ??
0000:63E3 ??
0000:63E4 ??
0000:63E5 ??
0000:63E7 ??
0000:63E8 ??
0000:63E9 ??
                                                                                  .block
                                                                                  block
                                                                                 .block
.block
                                                                                 .block
                                                                                  .block
                                                                                  .block
                                                                                 .block
0000:63EA ??
0000:63EB ??
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                                              unk_0_6407:
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0000:64FB ??
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                                                      unk_0_6687:
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0000:6739	??	.block 1
0000:673A 0000:673B	??	.block 1
0000:673C	??	.block 1
0000:673D 0000:673E	??	.block 1
0000:673F	??	.block 1
0000:6740	??	.block 1
0000:6741 0000:6742	3.5	.block 1
0000:6743	??	.block 1
0000:6744 0000:6745	??	.block 1
0000:6746	??	.block 1
0000:6747 0000:6748	?? ??	.block 1 .block 1
0000:6749	??	.block 1
0000:674A 0000:674B	?? ??	.block 1
0000:674B	??	.block 1 .block 1
0000:674D	??	.block 1
0000:674E 0000:674F	?? ??	.block 1 .block 1
0000:6750	??	.block 1
0000:6751 0000:6752	??	.block 1
0000:6753	??	.block 1
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0000:6759	??	.block 1
0000:675A 0000:675B	??	.block 1
0000:675C	??	.block 1
0000:675D	??	.block 1
0000:675E 0000:675F	?? ??	.block 1
0000:6760	??	.block 1
0000:6761 0000:6762	??	.block 1
0000:6763	??	.block 1
0000:6764 0000:6765	?? ??	.block 1
0000:6766	??	.block 1
0000:6767 0000:6768	?? ??	.block 1 .block 1
0000:6769	??	.block 1
0000:676A	?? ??	.block 1 .block 1
0000:676B 0000:676C	5.5	.block 1
0000:676D	??	.block 1
0000:676E 0000:676F	??	.block 1
0000:6770	??	.block 1
0000:6771 0000:6772	??	.block 1
0000:6773	??	.block 1
0000:6774 0000:6775	?? ??	.block 1 .block 1
0000:6776	??	.block 1
0000:6777 0000:6778	?? ??	.block 1
0000:6779	??	.block 1
0000:677A 0000:677B	?? ??	.block 1 .block 1
0000:677C	??	.block 1
0000:677D 0000:677E	?? ??	.block 1
0000:677E	3.5	.block 1
0000:6780 0000:6781	?? ??	.block 1
0000:6782	3.5	.block 1
0000:6783	??	.block 1
0000:6784 0000:6785	?? ??	.block 1
0000:6786	??	.block 1
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0000:6789	??	.block 1
0000:678A 0000:678B	?? ??	.block 1
0000:678C	??	.block 1
0000:678D 0000:678E	?? ??	.block 1
0000:678F	??	.block 1
0000:6790 0000:6791	?? ??	.block 1 .block 1
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0000:6795	??	.block 1
0000:6796 0000:6797	?? ??	.block 1 .block 1
0000:6798	??	.block 1
0000:6799 0000:679A	?? ??	.block 1 .block 1
0000:679B	5.5	.block 1
0000:679C	??	.block 1
0000:679D 0000:679E	?? ??	.block 1 .block 1
0000:679F	??	.block 1
0000:67A0 0000:67A1	??	.block 1
0000:67A2	??	.block 1
0000:67A3 0000:67A4	?? ??	.block 1 .block 1
0000:67A5	??	.block 1
0000:67A6 0000:67A7	?? ??	.block 1 .block 1
0000:67A8	??	.block 1
0000:67A9 0000:67AA	?? ??	.block 1
0000:67AB	??	.block 1
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0000:6827	??	.block 1
0000:6828	??	.block 1
0000:6829 0000:682A	55	.block 1 .block 1
0000:682B	??	.block 1
0000:682C 0000:682D	??	.block 1 .block 1
0000:682E	??	.block 1
0000:682F 0000:6830	??	.block 1 .block 1
0000:6831	??	.block 1
0000:6832 0000:6833	??	.block 1
0000:6834	5.5	.block 1 .block 1
0000:6835	??	.block 1
0000:6836 0000:6837	??	.block 1 .block 1
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0000:6839 0000:683A	??	.block 1 .block 1
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0000:683F 0000:6840	??	.block 1 .block 1
0000:6841	??	.block 1
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0000:684C 0000:684D	??	.block 1 .block 1
0000:684E	??	.block 1
0000:684F 0000:6850	??	.block 1 .block 1
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0000:687E	??	.block 1
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i 0- 1 = pauline
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0000:6AF8	??	.block	1
0000:6AF9	??	.block	1
0000:6AFA 0000:6AFB	?? ??	.block	1
0000:6AFC	??	.block	1
0000:6AFD	??	.block	1
0000:6AFE 0000:6AFF	??	.block	1
0000:6B00	??	.block	1
0000:6B01	??	.block	1
0000:6B02 0000:6B03	??	.block	1
0000:6B04	??	.block	1
0000:6B05 0000:6B06	?? ??	.block	1
0000:6B06	??	.block	1
0000:6B08	??	.block	1
0000:6B09 0000:6B0A	?? ??	.block	1
0000:6B0B	5.5	.block	1
0000:6B0C	??	.block	1
0000:6B0D 0000:6B0E	??	.block	1
0000:6B0F	?? ??	.block	1
0000:6B10	??	.block	1
0000:6B11	?? ??	.block	1
0000:6B12 0000:6B13	5.5	.block	1
0000:6B14	??	.block	1
0000:6B15 0000:6B16	?? ??	.block	1
0000:6B17	??	.block	ī
0000:6B18	??	.block	1
0000:6B19 0000:6B1A	<pre>3.5</pre>	.block	1
0000:6B1B	??	.block	ī
0000:6B1C	??	.block	1
0000:6B1D 0000:6B1E	?? ??	.block	1
0000:6B1F	??	.block	1
0000:6B20	??	.block	1
0000:6B21 0000:6B22	?? ??	.block	1
0000:6B23	??	.block	1
0000:6B24	??	.block	1
0000:6B25 0000:6B26	?? ??	.block	1
0000:6B27	??	.block	1
0000:6B28	?? ??	.block	1
0000:6B29 0000:6B2A	??	.block	1
0000:6B2B	??	.block	1
0000:6B2C 0000:6B2D	?? ??	.block	1
0000:6B2E	??	.block	i
0000:6B2F	??	.block	1
0000:6B30 0000:6B31	?? ??	.block	1
0000:6B32	??	.block	ī
0000:6B33	??	.block	1
0000:6B34 0000:6B35	??	.block	1
0000:6B36	??	.block	ī
0000:6B37	??	.block	1
0000:6B38 0000:6B39	??	.block	1
0000:6B3A	??	.block	1
0000:6B3B	??	.block	1
0000:6B3C 0000:6B3D	??	.block	1
0000:6B3E	??	.block	1
0000:6B3F 0000:6B40	<pre>3.5</pre>	.block	1
0000:6B41	??	.block	ī
0000:6B42	??	.block	1
0000:6B43 0000:6B44	?? ??	.block	1
0000:6B45	??	.block	1
0000:6B46 0000:6B47	<pre>3.5</pre>	.block	1
0000:6B47	??	.block	1
0000:6B49	??	.block	1
0000:6B4A 0000:6B4B	<pre>3.5</pre>	.block	1
0000:6B4C	??	.block	1
0000:6B4D 0000:6B4E	?? ??	.block	1
0000:6B4E	??	.block	1
0000:6B50	??	.block	1
0000:6B51 0000:6B52	?? ??	.block	1
0000:6B53	??	.block	i
0000:6B54	??	.block	1
0000:6B55 0000:6B56	??	.block	1
0000:6B57	??	.block	i
0000:6B58	?? ??	.block	1
0000:6B59 0000:6B5A	3.5 3.5	.block	1
0000:6B5B	??	.block	1
0000:6B5C 0000:6B5D	??	.block	1
0000:6B5D 0000:6B5E	??	.block	1
0000:6B5F	??	.block	1
0000:6B60 0000:6B61	<pre>3.5</pre>	.block	1
0000:6B61	3.5	.block	1
0000:6B63	??	.block	1
0000:6B64 0000:6B65	?? ??	.block	1
0000:6B66	??	.block	1
0000:6B67	??	.block	1
0000:6B68 0000:6B69	??	.block	1
0000:6B6A	??	.block	1
0000:6B6B	??	.block	1

riie. F./	Projects (pace (pacedev.net (sw)	re\piat	10.
0000:6B6C	??		1
0000:6B6D	??		1
0000:6B6E 0000:6B6F	??		1
0000:6B70	??	.block	1
0000:6B71	??		1
0000:6B72 0000:6B73	?? ??		1
0000:6B74	??	.block	1
0000:6B75	??		1
0000:6B76 0000:6B77	??		1
0000:6B78	??		1
0000:6B79	??		1
0000:6B7A 0000:6B7B	?? ??		1 1
0000:6B7C	??		1
0000:6B7D	??		1
0000:6B7E 0000:6B7F	??		1
0000:6B80	??		1
0000:6B81	??	.block	1
0000:6B82 0000:6B83	?? ??		1 1
0000:6B84	??		1
0000:6B85	??	.block	1
0000:6B86 0000:6B87	??		1 1
0000:6B88	??		1
0000:6B89	??	.block	1
0000:6B8A 0000:6B8B	??		1
0000:6B8C	55		1
0000:6B8D	??		1
0000:6B8E 0000:6B8F	?? ??		1
0000:6B90	??		1
0000:6B91	??	.block	1
0000:6B92 0000:6B93	?? ??		1
0000:6B94	55		1
0000:6B95	??	.block	1
0000:6B96 0000:6B97	??		1
0000:6B97	??		1
0000:6B99	??		1
0000:6B9A	??		1
0000:6B9B 0000:6B9C	??		1 1
0000:6B9D	??	.block	1
0000:6B9E	??		1
0000:6B9F 0000:6BA0	??		1
0000:6BA1	??	.block	1
0000:6BA2	??		1
0000:6BA3 0000:6BA4	?? ??		1 1
0000:6BA5	??		1
0000:6BA6	??		1
0000:6BA7 0000:6BA8	?? ??		1
0000:6BA9	??		1
0000:6BAA	??		1
0000:6BAB 0000:6BAC	??		1
0000:6BAD	??		1
0000:6BAE	??		1
0000:6BAF 0000:6BB0	?? ??	.block	1
0000:6BB1	??	.block	1
0000:6BB2	??		1
0000:6BB3 0000:6BB4	?? ??		1
0000:6BB5	??	.block	1
0000:6BB6 0000:6BB7	?? ??		1 1
0000:6BB8	??		1
0000:6BB9	??	.block	1
0000:6BBA 0000:6BBB	?? ??		1
0000:6BBC	??		1
0000:6BBD	??	.block	1
0000:6BBE 0000:6BBF	?? ??	.block	1 1
0000:6BC0	55		1
0000:6BC1	??		1
0000:6BC2 0000:6BC3	?? ??		1 1
0000:6BC4	??	.block	1
0000:6BC5	??		1
0000:6BC6 0000:6BC7	?? ??		1 1
0000:6BC8	??		1
0000:6BC9	??		1
0000:6BCA 0000:6BCB	?? ??		1
0000:6BCC	??		1
0000:6BCD	??		1
0000:6BCE 0000:6BCF	?? ??	.block	1
0000:6BD0	??		1
0000:6BD1	??	.block	1
0000:6BD2			
0000116803	??		1 1
0000:6BD3 0000:6BD4	<pre>5.5 5.6 5.7 5.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6</pre>	.block	1 1
0000:6BD4 0000:6BD5	?? ?? ?? ??	.block .block	1 1 1
0000:6BD4 0000:6BD5 0000:6BD6	?? ?? ?? ??	.block .block .block	1 1 1 1
0000:6BD4 0000:6BD5 0000:6BD6 0000:6BD7 0000:6BD8	?? ?? ?? ?? ??	.block .block .block .block .block	1 1 1 1 1
0000:6BD4 0000:6BD5 0000:6BD6 0000:6BD7 0000:6BD8 0000:6BD9	2? 2? 2? 2? 2? 2? 2?	.block .block .block .block .block .block	1 1 1 1 1 1
0000:6BD4 0000:6BD5 0000:6BD6 0000:6BD7 0000:6BD8	?? ?? ?? ?? ??	.block .block .block .block .block .block .block	1 1 1 1 1
0000:6BD4 0000:6BD5 0000:6BD6 0000:6BD7 0000:6BD8 0000:6BD9 0000:6BDA	22 22 23 23 24 25 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27	.block .block .block .block .block .block .block .block .block	1 1 1 1 1 1 1 1
0000:6BD4 0000:6BD5 0000:6BD6 0000:6BD7 0000:6BD8 0000:6BD8 0000:6BD8 0000:6BDB 0000:6BDC	2? ?? ?? ?? ?? ?? ?? ?? ??	.block .block .block .block .block .block .block .block .block .block	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0000:6BD4 0000:6BD5 0000:6BD6 0000:6BD7 0000:6BD8 0000:6BD9 0000:6BDA	22 22 23 23 24 25 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27	.block .block .block .block .block .block .block .block .block .block .block	1 1 1 1 1 1 1 1

.block 2

.end

.block 78h

; 0000:0779<sup>†</sup>o ...

0000:7D86

0000:7D88 ?? ?? ?? ??+ 0000:7D88 ?? ?? ?? ??+; end of 'IO' 0000:7D88 ?? ?? ?? ??+ 0000:7D88 ?? ?? ?? ??+ 0000:7D88 ?? ?? ?? ??+