```
0000*
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0000*
                                                  This file is generated by The Interactive Disassembler (IDA)
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0000*
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0000*
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0000*
0000*
                                     File Name : E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\main.bin
Format : Binary File
Base Address: 0000h Range: 0000h - 4000h Loaded length: 4000h
0000*
0000*
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0000*
                                   ; Target assembler: Table Driven Assembler (TASM) by Speech Technology Inc.
0000*
0000*
0000*
0000*
0000*
0000*
                                  ; Segment type: Pure code ; segment 'seg000'
                                  RESET:
                                                                                                                                     ; CODE XREF: sub_13A9+37|j
0000*3E 10
0000*
0000*
0002 32 00 71
0005 C3 2E 01
                                                                                                                                     ; 0000:3BC1/j ..
                                                                  ld
ld
                                                                                  a, 10h
(7100h), a
                                                                                                                                     ; NAMCO 06XX
                                                                                  START
                                                                  jр
0008
0008
0008
                                                                  SUBROUTINE
 0008
0008
0008 87
0008
                                                                                                                                      ; CODE XREF: sub_0128+3\j; 0000:04DD\p ...
                                  HL_plus_equals_2A:
                                                                  add
                                                                                  a, a
nc, loc_004F
0008
0009 D2 4F 00
000C 25
000D C3 4F 00
0010
0010
                                                                  jp
dec
jp
                                                                                 h
loc_004F
0010
0010 A7
0010
                                                                                                                                     ; CODE XREF: 0000:0533 p; 0000:059E p ...
                                   loc_0010:
                                                                  and
0011 F2 4F 00
0014 25
0015 C3 4F 00
0018
                                                                  jp
dec
                                                                                  p, loc_004F
                                                                                  loc_004F
                                                                  jр
0018
0018
0018 A7
0018 A7
0019 F0
001A ED 44
001C C9
                                                                                                                                     ; CODE XREF: sub_0EC4+1|p; sub_0EC4+4|p
                                  loc_0018:
                                                                  and
                                                                  ret
neg
                                                                                  p
                                                                  ret
001D
001D
001D
001D 33
001E 33
                                  loc_001D:
                                                                                                                                     ; CODE XREF: sub_3091+2E|j
                                                                  inc
inc
001E 33
001F C9
0020
0020
                                                                  ret
0020
0020
0020 06 03
0020
0022 21 80 81
0025 AF
0026 18 2C
0028
                                                                                                                                     ; CODE XREF: sub_1928+42 p; sub_19EE+31 p
                                  loc_0020:
                                                                  ld
                                                                                 b, 3
hl, 8180h
                                                                  1d
                                                                                  loc_0054
                                                                  jr
0028
0028
0028 EB
0029 CD 28 01
002C 29
002D 29
002E 19
002F C9
0030
0030
0030 C1
0030 C1
                                  loc_0028:
                                                                                                                                     ; CODE XREF: 0000:3E0A/p
                                                                                 de, hl
sub_0128
hl, hl
hl, hl
                                                                  ex
call
                                                                  add
add
                                                                  add
                                                                  ret
                                  save_PC_and_ret:
                                                                                                                                         CODE XREF: 0000:04D5|p
                                                                                                                                     ; 0000:0508|p ...
; get return address
0030 E1
0030
0031 DD 75 00
0034 DD 74 01
0037 C9
0038
0038
0038
                                                                                 hl
(ix+0), l
                                                                                                                                     ; save at IX
                                                                  ld
                                                                                  (ix+1), h
                                                                  ret
                                                                                                                                     ; CODE XREF: 0000:0065 p
0038 B
0038 B
0039 D5
003A C5
003B F5
003C 32 30 68
003F 21 20 68
0042 36 00
0044 36 01
0046 CD 96 00
0049 F1
004A C1
004B D1
004C E1
004B D1
004C E1
004C C9
004F C9
                                  loc 0038:
                                                                  push
push
push
                                                                                 hl
de
bc
af
                                                                  push
ld
ld
ld
                                                                                  (6830h), a
hl, 6820h
(hl), 0
(hl), 1
                                                                                                                                     ; kick watchdog
; main IRQ enable
                                                                                                                                     ; ack
                                                                                                                                     ; enable
                                                                  ld
                                                                  call
pop
                                                                                  sub_0096
                                                                  pop
                                                                                  bc
                                                                  pop
pop
ei
                                                                                  de
                                                                                  hl
                                                                  ret
004E C9

004F

004F

004F

85

004F

0050 6F

0051 D0

0052 24

0053 C9

0053

0053
                                                                                                                                     ; CODE XREF: HL_plus_equals_2A+1^j; HL_plus_equals_2A+5^j; ...
                                  loc_004F:
                                                                  add
ld
ret
                                                                                 a, 1
1, a
nc
                                                                  inc
                                  ret; End of function HL_plus_equals_2A
 0054
 0054
                                  loc_0054:
                                                                                                                                     ; CODE XREF: HL_plus_equals_2A+1E^j
```

; CODE XREF: sub_0096+5B†j

; get stack frame address

save_stack_frame:

push

ld

hl, (8006h) (hl), a

00F8

00FD 2C 00FE 2C

00F8 E5 00F9 2A 06 80 00FC 77

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst 5/06/2011, 10:13:19 PM
00FF 71
                                                                        (hl), c
00FF 71
0100 2c
0101 70
0102 2c
0103 73
0104 2c
0105 72
0106 2c
0107 D1
0108 73
0109 2c
010A 72
                                                                        (hl), b
                                                                                                                    ; save BC
                                                          inc
                                                         ld
inc
ld
                                                                       (hl), e
                                                                        (hl), d
                                                                                                                    ; save DE
                                                          inc
0106 2C
0107 D1
0108 73
0109 2C
010A 72
010B 2C
010C 22
010F C9
                                                          pop
ld
                                                                        (hl), e
                                                          inc
                                                                        (hl), d
                                                          ld
                                                                                                                    ; save HL
                                                         inc
ld
ret
              06 80
                                                                        (8006h), hl
                                                                                                                    ; store new stack frame address
 010F
                              ; End of function sub 0096
 010F
0110
0110
0110
0110
                              ; SUBROUTINE SUBROUTINE
0110
0110
0110
0110 11 00 70
                                                                                                                    ; CODE XREF: 0000:023A|p; 0000:0433|p ...
                              do_06XX_transfer:
                                                         1d
                                                                       de, 7000h
 0110
0113 18 D4
0113
0113
                             jr loc_00E9 ; End of function do_06XX_transfer
SUBROUTINE
                                                                                                                    ; CODE XREF: sub_0096+39<sup>†</sup>p; dipswitches; 8 bits
                              read_dsw_store_8016:
                                                                       de, 6800h
b, 8
                                                         ld
ld
                                                                                                                       CODE XREF: read_dsw_store_8016+D\hj read bits shift DSWB bit into carry shift into L
                              loc_011A:
                                                          ld
                                                                       a, (de)
                                                          rra
rr
                                                                       1
                                                         rra
rr
inc
                                                                                                                       shift DSWA bit into carry
shift into H
                                                                       de
                                                                                                                    ; next bit ; read 8 bits
                                                         djnz
ld
ret
                                                                       loc_011A
(8016h), hl
                                                                                                                       store dipswitches for sub-cpu
                              ; End of function read_dsw_store_8016
                                       SUBROUTINE
0128
0128
0128
                              sub_0128:
                                                                                                                    ; CODE XREF: HL_plus_equals_2A+21^p
         21 00 00
                                                                       hl, 0
                                                          ld
 012B C3 08 00
                              jp HL_plus_equals_2A; End of function sub_0128
012B
012B
012B
012E
012E
012E 012E 012E F3 012F ED 56 0131 AF 0132 32 30 68 0135 32 0A 80 0138 32 10 D0 013B 32 20 68 0141 32 21 68 0144 32 22 68 0147 32 23 68 0147 32 23 68 0147 30 20 00 014D 21 00 68 0150
                              START:
                                                                                                                    ; CODE XREF: 0000:0005<sup>†</sup>j
                                                         im
xor
ld
ld
                                                                        (6830h), a
(800Ah), a
                                                                                                                    ; kick watchdog
                                                                                                                    ; fg scroll x = 0
; fg scroll y = 0
; main IRQ disable
; sub IRQ disable
                                                          ld
ld
ld
ld
                                                                        (0D010h), a (0D030h), a
                                                                        (6820h), a
(6821h), a
                                                         ld
ld
ld
                                                                       (6822h), a
(6823h), a
bc, 20h;
hl, 6800h
                                                                                                                    ; sub2 IRQ enable?
; assert sub, sub2 RESET
; 32 bytes
                                                                                                                    ; pacman sound
014D 21 00 68
0150
0150
0150 70
0151 23
0152 0D
0153 20 FB
0155 31 00 D0
0158 06 00
015A 58
015B
015B TD 21 3D
                                                          ld
                              loc_0150:
                                                                                                                    ; CODE XREF: 0000:0153 j
                                                          ld
                                                                        (hl), b
                                                                       hl c nz, loc_0150 sp, 0D000h b, 0 e, b
                                                         inc
dec
jr
ld
                                                                                                                    ; init sound registers ; init SP
                                                          ld
                                                          ld
                                                                                                                    ; CODE XREF: 0000:01A6|j
                             loc_015B:
015B
015B FD 21 3D 03
015F
015F
015F DD 21 31 03
                                                                       iy, 33Dh
                                                          1d
                              loc_015F:
                                                                                                                    ; CODE XREF: 0000:019E|j
015F DD 21 31
0163 21 00 00
0166
0166 DD 56 00
0169 DD 4E 01
016C 15
016D 28 2D
0172 20 0E
0174
0174 32 30 68
0177 78
0178 86
0179 12
017A 23
017B 13
017C 79
017D BA
017E 20 F4
0182 0182
                                                                       ix, 331h
                                                          ld
                                                          ld
                                                                       hl, 0
                             loc_0166:
                                                                                                                    ; CODE XREF: 0000:019A/j
                                                          ld
                                                                       d. (ix+0)
                                                         ld
dec
jr
                                                                       c, (ix+1)
d
                                                                       z, loc_019C
                                                          dec
                                                                        (iy+0)
                                                                       nz, loc_0182
                                                                                                                    ; CODE XREF: 0000:017E|j; kick watchdog
                             loc 0174:
                                                          ld
                                                                        (6830h), a
                                                         ld
add
                                                                       a, b
a, (hl)
(de), a
                                                         ld
inc
inc
ld
                                                                       h1
                                                                       de
                                                                       a, c
d
                                                          cp
jr
jr
                                                                       nz, loc_0174
loc_0196
0182
0182 EB
0183
                             loc_0182:
                                                                                                                    ; CODE XREF: 0000:0172†j
                                                                       de, hl
                                                                                                                    ; CODE XREF: 0000:018F|j; kick watchdog
 0183
                             loc_0183:
                                                                        (6830h), a
0183 32 30 68
0186 1A
                                                                       a, (de)
```

```
0187 80
                                                                     add
                                                                                     (hl)
nz, loc_01A9
hl
0188 BE
0189 20 1E
018B 23
                                                                     cp
jr
                                                                     inc
018C 13
018D 79
018E BC
018F 20 F2
                                                                                     de
a, c
h
                                                                     inc
                                                                     ld
                                                                     cp
jr
ex
cp
jr
                                                                                     nz, loc_0183
0191 EB
0192 FE CF
0194 28 0A
0196
                                                                                     de, hl

0CFh ; '¤'

z, loc_01A0
0196
0196
0198
                                   loc_0196:
                                                                                                                                           ; CODE XREF: 0000:01801j
0196 DD 23
0198 DD 23
0198 DD 23
019A 18 CA
019C
019C
019C
019C FD 23
                                                                     inc
inc
                                                                                     loc_0166
                                                                     jr
                                                                                                                                           ; CODE XREF: 0000:016D†j
                                    loc_019C:
                                                                     inc
019E 18 BF
01A0
01A0
                                                                                     loc_015F
01A0
01A0
01A0 78
01A1 C6 11
01A3 38 0D
01A5 47
01A6 C3 5B 01
01A9
                                   loc_01A0:
                                                                                                                                           ; CODE XREF: 0000:019411
                                                                                    a, b
a, 11h
c, loc_01B2
                                                                     ld
add
                                                                     jr
ld
                                                                                     b, a
loc_015B
                                                                     jр
01A9
01A9
01A9
01A9 7C
01AA CB 3F
01AC CB 3F
01AE CB 3F
01B0 CB 3F
                                   loc_01A9:
                                                                                                                                           ; CODE XREF: 0000:01891j
                                                                     srl
srl
                                                                                     a
a
 01B2
01B2
                                   loc 01B2:
                                                                                                                                           ; CODE XREF: 0000:01A31j
01B2 01B2 32 00 85 01B5 AF 01B6 32 AD 85 01B9 CD 67 03 01BC 11 3E 03 01BF 01BF 22 20 69
                                                                     ld
xor
                                                                                      (8500h), a
                                                                                      a
(85ADh), a
                                                                     ld
call
ld
                                                                                     init_some_graphics
de, 33Eh
                                                                                                                                           ; ptr self-test messgages
01BF
01BF 32 30 68
01C2 13
01C3 1A
01C4 6F
01C5 13
01C6 1A
01C7 67
01C8 A7
01C9 28 0D
01CB 13
01CC
01CC
01CC 1A
01CD A7
01CE 28 EF
01D0 77
01CE 28 EF
01D0 73
01D1 13
01D2 01 C0 FF
01D5 09
01D6 18 F4
01D8
01D8
01D8
                                                                                                                                           ; CODE XREF: 0000:01CE - j
                                    loc 01BF:
                                                                     ld
                                                                                      (6830h), a
                                                                                                                                           ; kick watchdog
                                                                     inc
ld
                                                                                    a, (de)
l, a
                                                                     ld
                                                                     inc
ld
ld
                                                                                     de
a, (d
h, a
                                                                                           (de)
                                                                                                                                           ; HL = screen address; done all messages?
                                                                     and
                                                                                           {\tt check\_ram\_test\_result}
                                                                                                                                          ; yes, exit
                                                                                                                                            ; CODE XREF: 0000:01D6|j
                                   loc_01CC:
                                                                     ld
and
                                                                                     a, (de)
                                                                                                                                              message char
done message?
                                                                                      a
z, loc_01BF
(hl), a
                                                                     jr
ld
inc
                                                                                                                                           ; yes, loop
; put char on screen
; next message char
                                                                                     de
bc, OFFC0h
                                                                     ld
                                                                                                                                           ; next screen address
; loop through message
                                                                     add
                                                                                     hl.
                                                                                      loc_01CC
                                                                                                                                           ; CODE XREF: 0000:01C9<sup>†</sup>j; ram test result; OK?
01D8
                                    check_ram_test_result:
01D8 3A 00 85
01DB FE 10
01DD 28 08
                                                                                     a, (8500h)
10h
z, ram_test_ok
                                                                     ld
                                                                     ср
                                                                                                                                               ves, skip
01DF 32 CF C4
01E2
01E2
                                                                     ĺd
                                                                                      (0C4CF\overline{h}), a
                                                                                                                                               display ram test error
                                                                                                                                           ; CODE XREF: 0000:01E5|j
01E2

01E2 32 30 68

01E5 18 FB

01E7

01E7

01E7

01E7

01E7 3E 18

01E9 32 CF C4

01EC 3E 14

01EE 32 8F C4

01F1 31 80 A7

01F4 AF

01F5 21 00 80

01F8 11 01 80

01F8 11 01 80

01FB 01 FF 03

01FE 77

01FF ED B0

0201 32 30 68
                                    loc 01E2:
                                                                     ld
                                                                                     (6830h), a loc_01E2
                                                                                                                                              kick watchdog
loop until interrupted
                                                                                                                                           ; CODE XREF: 0000:01DD†j; 'O'
                                    ram_test_ok:
                                                                     ld
ld
ld
                                                                                     a, 18h
(0C4CFh), a
a, 14h
(0C48Fh), a
                                                                                                                                           ; screen location ; 'K'
                                                                                                                                           ; screen location
                                                                     ld
ld
                                                                                      sp, 0A780h
                                                                                    a
hl, 8000h
de, 8001h
bc, 3FFh
(hl), a
                                                                     xor
                                                                                                                                           ; work ram #2 & sprites #1
                                                                     ld
                                                                     ld
ld
ld
                                                                                                                                           ; clear RAM
                                                                     ldir
01FF ED B0
0201 32 30 68
0204 21 80 87
0207
0207
0207 77
0208 2C
0209 20 FC
020B 21 80 97
                                                                                     (6830h), a
hl, 8780h
                                                                     ld
ld
                                                                                                                                           ; kick watchdog
                                                                                                                                           ; CODE XREF: 0000:0209 hi
                                    loc_0207:
                                                                     ld
inc
                                                                                      (hl), a
                                                                                     nz, loc_0207
hl, 9780h
                                                                     jr
ld
020E
020E
020E
                                                                                                                                           ; CODE XREF: 0000:0210/j
                                    loc_020E:
                                                                                      (hl), a
020E 77
020F 2C
0210 20 FC
0212 21 80 A7
0215
0215
0215 77
0216 2C
0217 20 FC
0219 32 AD 85
0210 21 00 92
021F 22 04 80
0222 22 06 80
0225
0225
                                                                     ld
                                                                     inc
                                                                                     nz, loc_020E
hl, 0A780h
                                                                     jr
ld
                                   loc_0215:
                                                                                                                                           ; CODE XREF: 0000:0217-i
                                                                     ld
                                                                                      (hl), a
                                                                     inc
                                                                                    1
nz, loc_0215
(85ADh), a
h1, 9200h
(8004h), h1
(8006h), h1
                                                                     jr
ld
ld
ld
                                                                     ld
                                   loc_0225:
                                                                                                                                           ; CODE XREF: 0000:0227/j
```

init_some_graphics
a, 27h;
c, 18h

; CODE XREF: 0000:02AF1j

02D4 C3 7E 02

02D7 CD 67 03 02DA 3E 27 02DC 0E 18

loc 02D7:

call ld ld

02D7 02D7 02D7 02D7

0365 E1

0366 C9 0366 pop

ret; End of function delay_65536_cycles

```
0366
  0367
0367
0367
0367
                                                                             ; THE SUBROUTINE THE SUBROUTINE
  0367
0367 21 80 97
0367
                                                                                                                                                                                                                                                                                                     ; CODE XREF: 0000:01B9\[ p \]
; 0000:02D7\[ p \]
; start address (sprite registers)
; b=\$24(' '), c=\$98[00] (end address)
                                                                            init_some_graphics:
                                                                                                                                                                                    hl, 9780h
0367
036A 01 98 24
036D CD 7D 03
0370 21 00 78
0373 0E 80
0375 CD 7D 03
0378 21 00 B0
037B 0E CF
                                                                                                                                                   ld
                                                                                                                                                                                    n1, 9780h
bc, 2498h
fill mem with B
h1, 7800h
c, 80h; 'Ç'
fill mem with B
h1, 08000h
c, 0CFh; '¤'
                                                                                                                                                  ld
call
                                                                                                                                                                                                                                                                                                       ; start address
                                                                                                                                                                                                                                                                                                       ; $80[00] (end address)
                                                                                                                                                   ld
                                                                                                                                                  call
ld
ld
                                                                                                                                                                                                                                                                                                       ; start address (fg attr); $CF[00] (end address)
                                                                             ; End of function init_some_graphics
 037B
037D
037D
037D
                                                                             ; SUBROUTINE
 037D
037D
037D 32 30 68
                                                                                                                                                                                                                                                                                                              CODE XREF: init_some_graphics+6|pinit_some_graphics+E|p ... kick watchdog fill byte write to memory
                                                                              fill_mem_with_B:
037D
0380 78
0381 77
0382 23
0383 7C
0384 B9
0385 20 F6
0387 C9
0387
0387
0388
0388
                                                                                                                                                                                      (6830h), a
  037D
                                                                                                                                                   1d
                                                                                                                                                  ld
ld
                                                                                                                                                                                      a, b
(hl), a
                                                                                                                                                                                                                                                                                                       ; next address
                                                                                                                                                   inc
                                                                                                                                                                                     hl
                                                                                                                                                                                    a, h
                                                                                                                                                  ld
cp
jr
                                                                                                                                                                                                                                                                                                      ; finished? ; no, loop
                                                                                                                                                                                     nz, fill_mem_with_B
                                                                                                                                                   ret
                                                                             ; End of function fill_mem_with_B
  0388
 0388
0388
0388 21 D2 03
038B 11 60 85
038E 01 08 00
0391 ED B0
0393 16 08
0395 21 00 68
                                                                             loc_0388:
                                                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:0318<sup>†</sup>j
                                                                                                                                                   ld
ld
                                                                                                                                                                                     de, 8560h
bc, 8
                                                                                                                                                  ldir
                                                                                                                                                                                    d, 8
hl, 6800h
                                                                                                                                                  ld
  0398
0398
0398 7E
0399 1F
                                                                             loc_0398:
                                                                                                                                                                                                                                                                                                      ; CODE XREF: 0000:03A1 j
                                                                                                                                                                                    a, (hl)
                                                                                                                                                   ld
                                                                                                                                                   rra
 039A CB 19
039C 1F
039D CB 18
                                                                                                                                                   rr
rra
                                                                                                                                                                                     С
 039D CB 18

039F 23

03AO 15

03A1 20 F5

03A3 21 CA 03

03A6 78

03A7 E6 03

03A9 CB 27

03AB 85

03AC 6F
                                                                                                                                                   rr
                                                                                                                                                   inc
                                                                                                                                                                                    hl
                                                                                                                                                                                    nz, loc_0398
hl, 3CAh
a, b
                                                                                                                                                   dec
jr
ld
                                                                                                                                                   ld
                                                                                                                                                  and
sla
                                                                                                                                                  add
ld
ld
ld
                                                                                                                                                                                    a, 1
1, a
a, (h1)
(8563h), a
03AB 65
03AC 6F
03AD 7E
03AE 32 63 85
03B1 23
03B2 7E
03B3 32 64 85
03B6 21 CA 03
03B9 79
03BA 1F
03BB E6 06
03BB 85
03BB 6F
03BF 7E
03CB 32 65 85
03C3 23
03C4 7E
03C5 32 66 85
03C8 18 10
03CB 03CB 03
                                                                                                                                                  inc
ld
ld
ld
                                                                                                                                                                                     hl
                                                                                                                                                                                                  (hl)
                                                                                                                                                                                    a, (hl)
(8564h),
hl, 3CAh
a, c
                                                                                                                                                   1d
                                                                                                                                                  rra
and
                                                                                                                                                                                     a, 1
                                                                                                                                                   add
                                                                                                                                                  ld
ld
ld
                                                                                                                                                                                    1, a
a, (h1)
(8565h), a
                                                                                                                                                                                    hl
a, (hl)
(8566h),
loc_03DA
                                                                                                                                                   inc
                                                                                                                                                  ld
                                                                                                                                                   jr
                                                                                                                                                   dh
                                                                                                                                                                                2;
3;
2;
1;
1;
1;
1;
1;
1;
03CB 03
03CC 02
03CD 01
03CE 01
03CF 02
03D0 01
03D2 01
03D3 01
03D4 01
03D5 01
03D6 01
03D7 04
03D8 02
03D9 02
03DA
                                                                                                                                                   .db
.db
.db
.db
.db
.db
                                                                                                                                                   .db
.db
                                                                                                                                                     . db
                                                                                                                                                                                2 ;
2 ;
                                                                                                                                                     . db
 03DA
03DA F3
03DB 3E 10
03DD 3E 10
03ED 3E 10
03ED 3E 20 07
03ED 3E 3C 00
03ED 
                                                                            loc_03DA:
                                                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:03C81i
  03DA
                                                                                                                                                  di
ld
ld
                                                                                                                                                                                     a, 10h
(7100h), a
                                                                                                                                                   xor
ld
ld
                                                                                                                                                                                    (6830h), a
(800Ah), a
(0D010h), a
(0D030h), a
                                                                                                                                                                                                                                                                                                       ; kick watchdog
                                                                                                                                                                                                                                                                                                     ; fg scroll x = 0; fg scroll y = 0; main IRQ disable; sub IRQ disable; sub2 IRQ enable?; assert sub, sub2 RESET
                                                                                                                                                  ld
ld
ld
ld
ld
ld
ld
                                                                                                                                                                                      (0D030h), a
(6820h), a
(6821h), a
                                                                                                                                                                                       (6822h), a (6823h), a
                                                                                                                                                                                    (6823h),
hl, 8000h
de, 8001h
bc, 1FFh
                                                                                                                                                   ld
                                                                                                                                                  ld
ldir
ld
                                                                                                                                                                                      (hl), 0
                                                                                                                                                                                    hl, 9200h
(8004h), hl
(8006h), hl
                                                                                                                                                   ld
```

```
040F
                                                         loc_040F:
                                                                                                                                                                                                                               ; CODE XREF: 0000:0412-i
                                                                                                                                          (hl), 0
                                                                                                               inc
                                                                                                               jr
ld
ld
ld
                                                                                                                                          nz, loc_040F
                                                                                                                                         h1, 45Bh
de, 8280h
bc, 64
                                                                                                                                                                                                                               ; jump table
; destination in RAM
; 32 entries
                                                                                                                                                                                                                               ; copy to RAM
                                                                                                               ld
ld
ld
                                                                                                                                         a, 1
(6820h), a
(6822h), a
(6823h), a
                                                                                                                                                                                                                               ; main IRQ enable
; sub2 IRQ disable?
; de-assert sub, sub2 RESET
                                                                                                               ld
                                                                                                               ld
ld
ld
                                                                                                                                        (85ADh), a
hl, 8560h
bc, 0A108h
do_06XX_transfer
                                                                                                               call
ei
                                                                                                                                                                                                                               ; CODE XREF: 0000:043B|j; 0000:0452|j
                                                          loc_0437:
                                                                                                               ld
dec
jr
                                                                                                                                          hl, (8000h)
                                                                                                                                          nz, loc_0437
043B 20 FA
043D 24
043E 22 00 80
0441 DD 21 80 82
0447 06 20
0447 C5
0448 CD 54 04
044B C1
044C DD 23
044C DD 23
044E DD 23
0450 10 F5
0452 18 E3
                                                                                                               inc
ld
ld
                                                                                                                                         h
(8000h), hl
ix, 8280h
b, 32
                                                                                                                                                                                                                               ; jump table ($045B) in RAM ; 32 entries
                                                                                                               ld
                                                          loc_0447:
                                                                                                                                                                                                                               ; CODE XREF: 0000:0450 j
                                                                                                               push
                                                                                                                                         jump_ix
bc
ix
                                                                                                               call
                                                                                                               pop
                                                                                                               inc
                                                                                                                                                                                                                                ; next routine
                                                                                                                                          ix
  0450
0452
0454
0454
0454
                                                                                                                                                                                                                                    loop through 32 routines reset and loop again
                                                                                                               djnz
jr
                                                                                                                                          loc 0447
                 18 E3
                                                                                                                                          loc_0437
                                                          ; SUBROUTINE SUBROUTINE
 0454
0454
0454 DD 6E 00
                                                          jump_ix:
                                                                                                                                                                                                                                      CODE XREF: 0000:04481p
                                                                                                                                                                                                                                ; 0000:1762 p ...
  0454
0457 DD 66 01
045A E9
045A
                                                                                                                                         l, (ix+0)
h, (ix+1)
(h1)
                                                                                                               ld
ld
                                                                                                               jр
                                                          ; End of function jump_ix \dot{x}
045A

045A

045B 9B 04

045D BB 14

045F 00 30

0461 D0 33

0463 B3 33

0467 08 0F

0469 9E 3B

046D 1F 00

0471 1F 00

0471 1F 00

0477 1F 00

0477 1F 00

0478 1F 00

0479 1F 00

0479 1F 00

0478 1F 00

0479 1F 00

0478 1F 00

0479 1F 00

0478 1F 00

0479 1F 00

0479 1F 00

0479 1F 00

0481 1F 00

0485 1F 00

0485 1F 00

0487 1F 00

0488 1F 00

0489 1F 00

0489 1F 00

0481 1F 00

0485 1F 00

0487 1F 00

0487 1F 00
                                                                                                                .dw 49Bh
                                                                                                                                                                                                                               ; routine jump table
                                                                                                                 .dw 14BBh
                                                                                                              dw 3000h
dw 33D0h
dw 33E5h
dw 0F08h
dw 38E5h
dw 0F08h
dw 18Ph
dw 1Fh
                                                                                                                                                                                                                                ; do 54XX transfers
; protection check
; check protection-check code
                                                                                                                                                                                                                                 ; null routine
 0499 62 18

049B CD E1 06

049E CD 0D 07

04A1 CD 2A 07

04A4 CD D9 10

04A7 3A 17 80

04AA 07

04AB 2F

04AC E6 01

04AB 32 20 80

04B1 3E 01

04B3 32 2A 80

04B6 3E F8

04B8 32 14 80
                                                                                                                .dw 1862h
                                                                                                                                        clear_WRAM_1
clear_foreground
clear_background
init_high_score_table
a, (8017h)
                                                                                                               call
                                                                                                               call
                                                                                                              call
call
ld
                                                                                                               rlca
                                                                                                               cpl
and
ld
                                                                                                                                          (8020h), a
                                                                                                                                          a, 1
(802Ah), a
a, 0F8h; '°'
(8014h), a
                                                                                                               ld
                                                                                                               ld
ld
                                                                                                               ld
  04BB
                                                                                                                                                                                                                               ; CODE XREF: 0000:06A9|j; 0000:06B3|j; bytes to write; 61=51XX(W), 02=bytes
  04BB
04BB 21 0E 0C
04BB
                                                          loc_04BB:
                                                                                                                                         hl, 0C0Eh
bc, 6102h
                                                                                                               ld
  04BE 01 02 61
 04BE 01 02 61

04C1 F3

04C2 CD 10 01

04C5 FB

04C6 AF

04C7 32 23 80

04CA 3A 29 80

04CA 3A 29 80

04CB 20 1B

04D0 3E 02

04D2 32 28 80

04D5 F7

04D6 3A 28 80

04D9 3D

04DA 21 40 0C

04DD CF

04DD CF
                                                                                                               ld
                                                                                                               di
call
                                                                                                                                          do_06XX_transfer
                                                                                                               ei
xor
ld
ld
                                                                                                                                         (8023h), a
a, (8029h)
                                                                                                               and
jr
ld
ld
                                                                                                                                        a
nz, loc_04EB
a. 2
                                                                                                                                          a, 2
(8028h), a
                                                                                                                                                                                                                               ; save PC and return
                                                                                                               rst
                                                                                                                                          30h
                                                                                                                                          ā, (8028h)
                                                                                                               ld
dec
ld
                                                                                                                                          hl, 0C40h
                                                                                                                                                                                                                               ; jump table ; get jump entry address
                                                                                                               rst
                                                                                                                                         e, (hl)
hl
  04DE 5E
04DF 23
```

```
d, (hl)
de, hl
(hl)
  04E0 56
                                                                                                                                                                 ld
  04E1 EB
04E2 E9
04E3
                                                                                                                                                                 ex
jp
                                                                                                                                                                                                                                                                                                                                     ; get address
; go
  04E3
  04E3
04E3 CD 81 08
04E3
                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:0C6B|j; 0000:0CA6|j ...
                                                                                    loc_04E3:
                                                                                                                                                               call
                                                                                                                                                                                                       flash_insert_coin
 04E6
04E6 3A 29 80
                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:0DB8|j; 0000:0DC1|j
                                                                                    loc_04E6:
  04E6
                                                                                                                                                                ld
                                                                                                                                                                                                       a. (8029h)
 04E9 A7
04EA C8
04EB
04EB
                                                                                                                                                                and
ret
                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:04CE11
                                                                                   loc 04EB:
   04EB CD F0 06
                                                                                                                                                                                                      sub_06F0
                                                                                                                                                                call
 04EB CD F0 06
04EE AF
04EF 32 28 80
04F2 3C
04F3 32 2A 80
04F6 CD 0D 07
04F9 CD 2A 07
                                                                                                                                                                xor
ld
                                                                                                                                                                                                        a
(8028h), a
                                                                                                                                                                 inc
                                                                                                                                                                                                      a (802Ah), a clear_foreground clear_background
                                                                                                                                                               ld
call
                                                                                                                                                                                                     print_push_start_button
sub_ODD5
print_copyright_msgs
sub_08AA
30h
display_credits
04FC CD 3C 08
04FF CD D5 0D
04FC CD 3C 08
04FF CD D5 0D
0502 CD DC 07
0505 CD AA 08
0508 F7
0509 CD 01 08
0507 3A 1B 80
0512 A7
0513 C8
0514 32 23 80
0517 AF
0518 32 1B 80
0518 31 80
0522 CC
0523 77
0524 CC
0525 77
0526 CC
0527 EB
0528 21 0A 0C
0527 EB
0528 21 0A 0C
0528 3A 17 80
0530 7
0531 E6 03
0533 D7
0531 E6 03
0533 D7
0531 E6 03
0533 D7
0535 EB
0536 77
0537 2C
0538 2C
0538 2C
0539 2C
0539 2C
0538 2C
0539 2C
0538 3C
0538 3C
0539 2C
0538 3C
                                                                                                                                                                call
call
call
call
                                                                                                                                                                rst
call
call
                                                                                                                                                                                                                                                                                                                                   ; save PC and return
                                                                                                                                                                                                      print_start_one_or_two_players
a, (801Bh)
                                                                                                                                                                and
ret
ld
                                                                                                                                                                                                       (8023h), a
                                                                                                                                                                 xor
                                                                                                                                                                                                     a (8021h), a (801Bh), a hl, 8180h (hl), a
                                                                                                                                                                 ld
ld
                                                                                                                                                                 ld
ld
                                                                                                                                                                 inc
ld
                                                                                                                                                                                                        (hl), a
                                                                                                                                                                 inc
                                                                                                                                                                ld
inc
                                                                                                                                                                                                        (hl), a
                                                                                                                                                                                                      de, hl
hl, 0C0Ah
a, (8017h)
                                                                                                                                                                 ex
ld
                                                                                                                                                                ld
rlca
rlca
                                                                                                                                                                 rlca
                                                                                                                                                                and
rst
ld
                                                                                                                                                                                                     10h
a, (hl)
de, hl
(hl), a
                                                                                                                                                                ex
ld
inc
                                                                                                                                                                 inc
inc
                                                                                                                                                                 inc
ld
                                                                                                                                                                                                        (hl), 0
                                                                                                                                                                inc
ld
inc
                                                                                                                                                                                                        (hl), 0
                                                                                                                                                                                                      de, hl
a, (8017h)
                                                                                                                                                                 ex
ld
                                                                                                                                                                rlca
rlca
rlca
                                                                                                                                                                                                      3
3
z, loc_0550
                                                                                                                                                                and
xor
                                                                                                                                                                 jr
ld
054E 3E 01

0550

0550

0550

0550

0553 CF

0553 CF

0555 23

0556 7E

0557 67

0558 69

0550 2F

0550 0F

0550 0F

055E 0F

055F E6 07

0561 CF

0562 EB
                                                                                    loc_0550:
                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:054C1j
                                                                                                                                                                 ld
                                                                                                                                                                                                       hl, 0C10h
                                                                                                                                                                                                      8
c,
hl
                                                                                                                                                                 rst
ld
                                                                                                                                                                                                                    (hl)
                                                                                                                                                                 inc
ld
                                                                                                                                                                                                     hl
a, (hl)
h, a
l, c
a, (801
                                                                                                                                                                ld
ld
ld
                                                                                                                                                                                                                   (8017h)
                                                                                                                                                                cpl
rrca
rrca
and
                                                                                                                                                                 rst
  0562 EB
0563 1A
0564 77
0565 2C
                                                                                                                                                                 ex
ld
ld
                                                                                                                                                                                                      de, hl
a, (de)
(hl), a
                                                                                                                                                                 inc
0566 13

0567 1A

0568 77

0569 2C

0568 36 01

056C 2C

056D 3A 17 80

0570 2F

0570 2F

0572 0F

0573 E6 07

0575 FE 07

0577 3E 00

0579 20 01

0578 3C

0570 07

0570 77

0570 77

0570 77

0570 77

0570 77

0570 77

0580 A7

0580 A7

0581 28 10

0583 21 80 81

0583 21 80 81

0586 11 C0 81

0589 01 40 00

0589 ED B0
                                                                                                                                                                inc
ld
ld
                                                                                                                                                                                                       a, (de)
(hl), a
                                                                                                                                                                 inc
                                                                                                                                                                ld
inc
                                                                                                                                                                                                       (hl), 1
                                                                                                                                                                                                       a, (8017h)
                                                                                                                                                                 ld
                                                                                                                                                                cpl
rrca
rrca
                                                                                                                                                                 and
                                                                                                                                                                 cp
ld
                                                                                                                                                                                                       a, 0
                                                                                                                                                                                                       nz, loc_057C
                                                                                                                                                                 inc
                                                                                    loc_057C:
                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:0579<sup>†</sup>j
                                                                                                                                                                                                     (h1), a
a, (8022h)
a
z, loc_0593
h1, 8180h
de, 81C0h
bc, 40h; '(
                                                                                                                                                                 ld
                                                                                                                                                                 ld
                                                                                                                                                                 and
jr
ld
                                                                                                                                                                 ld
                                                                                                                                                                                                                                                     ı a ı
```

```
058E 3E 01
                                                                                                                                                                    a, 1
(0A001h), a
   0590 32 01 A0
0593
0593
0593 21 83 81
                                                                     loc 0593:
                                                                                                                                                                                                                                                                         ; CODE XREF: 0000:0581<sup>†</sup>j
                                                                                                                                                                                                                                                                         ; 0000:067F/j ...
   0593
0596
0597
                                                                                                                                   ld
dec
ld
                                                                                                                                                                  hl, 8183h
(hl)
a, (8187h)
                     35
3A 87 81
. 3A 87 81

U59A 4F

059B 21 B3 3E

059E D7

059F 7E

05A^
                                                                                                                                                                  c, a
hl, 3EB3h
10h
                                                                                                                                   ld
ld
                                                                                                                                    rst
                                                                                                                                                                  10h
a, (hl)
(8013h), a
hl, 0D00h
(8010h), hl
 059F 76
05A0 32 13 80
05A3 21 00 0D
05A6 22 10 80
05A9 79
05AA 21 00 A4
05AD CF
05AF 32 85 81
05B2 23
05B4 32 86 81
05B3 76
05B8 32 2B 80
05B3 32 2C 80
05B3 32 2C 80
05C1 32 22 84 80
05C1 32 22 84 80
05C1 32 22 84 80
05C1 32 22 86
05C4 32 44 80
05C7 CD D5 0D
05D0 CD 68 0F
05CA CD 47 07
05CA CD 47 07
05CA CD 47 07
05CB CD 55 0D
05D0 CD 68 0F
05D3 21 68 18
05D6 22 BE 82
05DF 37 07
05CB CD 77 07
                                                                                                                                    ld
                                                                                                                                   ld
ld
ld
                                                                                                                                   ld
ld
                                                                                                                                                                   a, c
hl, 0A400h
                                                                                                                                    rst
ld
                                                                                                                                                                  a, (hl)
(8185h), a
                                                                                                                                    ld
                                                                                                                                   inc
ld
ld
                                                                                                                                                                  hl
a, (hl)
(8186h), a
                                                                                                                                   xor
ld
ld
                                                                                                                                                                    (802Bh), a
                                                                                                                                                                    (802Ch),
(802Dh),
                                                                                                                                    ld
                                                                                                                                                                  (802Dh), a

(8422h), a

(8044h), a

clear_foreground

clear_background_with_88

sub_0DD5

sub_0F68

hl, 1862h

(82EEh), hl

hl, 14BBh

(8282h), hl

a
                                                                                                                                   ld
ld
                                                                                                                                    call
                                                                                                                                   call
                                                                                                                                   call
call
ld
                                                                                                                                    ld
                                                                                                                                    ld
ld
                                                                                                                                    xor
ld
                                                                                                                                                                    a
(802Ah), a
                                                                                                                                    inc
ld
                                                                                                                                                                  a (0A001h), a a, 0A0h; 'á' (8041h), a print_player_start_msgs
                                                                                                                                    ld
                                                                                                                                   ld
call
                                                                                                                                                                  30h
hl, 8041h
(hl)
nz
                                                                                                                                    rst
ld
                                                                                                                                   dec
ret
call
                                                                                                                                                                   wipe_player_start_msgs
                                                                                                                                    rst
                                                                                                                                                                   30h
                                                                                                                                                                  a, (802Ah)
a
                                                                                                                                   ld
and
                                                                                                                                    ret
                                                                                                                                   call
ld
ld
                                                                                                                                                                   clear_background_with_88 a, 40h; '@' (8041h), a
                                                                                                                                                                   a, (8011h)
0Eh
                                                                                                                                    ld
                                                                                                                                    sub
                                                                                                                                    cp
jr
ld
                                                                                                                                                                  36h; '6'
nc, loc_061A
hl, 8187h
(hl)
                                                                                                                                    inc
ld
                                                                                                                                                                  (h1)
a, 10h
(h1)
nz, loc_061A
(h1), 6
                                                                                                                                    cp
jr
                                                                                                                                                                                                                                                                        ; CODE XREF: 0000:060D<sup>†</sup>j; 0000:0616<sup>†</sup>j
                                                                     loc_061A:
  061A
061A
061A 3A 16 80
061A
061D 2F
061E 07
061C 07
0620 07
0620 07
0623 21 34 0C
0626 D7
0627 4E
0628 3A 88 81
062B 91
062C 30 01
062C AF
                                                                                                                                    ld
                                                                                                                                                                   a, (8016h)
                                                                                                                                   cpl
rlca
                                                                                                                                    rlca
rlca
                                                                                                                                    and
                                                                                                                                                                  hl, 0C34h
10h
                                                                                                                                    ld
                                                                                                                                    rst
ld
ld
                                                                                                                                                                   c, (hl)
a, (8188h)
                                                                                                                                    sub
                                                                                                                                                                   nc, loc_062F
                                                                                                                                    xor
  062F
                                                                     loc 062F:
                                                                                                                                                                                                                                                                        ; CODE XREF: 0000:062C11
                                                                                                                                                                  (8188h), a
30h
hl, 8041h
                                                                                                                                    ld
                                                                                                                                   rst
ld
                                                                                                                                   dec
ret
ld
                                                                                                                                                                    (hl)
                                                                                                                                                                  nz
hl, 7940h
                                                                                                                                    ld
                                                                                                                                                                   de, 7941h
                                                                                                                                   ld
ld
ldir
                                                                                                                                                                  bc, 0Dh (hl), 0
                                                                                                                                                                   a, (8183h)
                                                                                                                                    ld
                                                                                                                                                                  a nz, loc_0682 loc_1143
                                                                                                                                    and
                                                                                                                                    αĖ
    064E
  064E
064E
064E 3A 22 80
                                                                                                                                                                                                                                                                                CODE XREF: 0000:1197/j
                                                                      loc_064E:
                                                                                                                                                                                                                                                                         ; 0000:126F-i
  064E 3A 22 80

064E

0651 A7

0652 28 1A

0654 CD 0D 07

0657 CD 47 07

065A CD D5 0D

065D CD 6A 08

0660 3E 80

0662 32 41 80

0665 F7

0666 21 41 80
                                                                                                                                                                  a, (8022h)
a
z, loc_066
                                                                                                                                    ld
                                                                                                                                    and
                                                                                                                                                                  a z, loc_066E clear_foreground clear_background_with_88 sub_0DD5 display_game_over_player a, 80h; 'Ç'. (8041h), a 30h hl, 8041h (hl)
                                                                                                                                   jr
call
call
call
                                                                                                                                    ld
                                                                                                                                   ld
rst
ld
    0669 35
                                                                                                                                    dec
   066A C0
066B CD 49 08
                                                                                                                                                                   nz
wipe_game_over_player
```

```
; CODE XREF: clear_WRAM_1+C|j
06F6
06F6 36 00
06F8 23
06F9 1B
06FA 7B
06FB B2
                               loc_06F6:
                                                                                                                        ; CODE XREF: sub_06F0+C|j
                                                                          (hl), 0
                                                           inc
dec
ld
or
                                                                         hl
de
a, e
d
06FB B2
06FC 20 F8
06FE 21 74 79
0701 11 06 00
0704
0704
                                                                         nz, loc_06F6
hl, 7974h
de, 6
                                                           jr
ld
ld
                              loc 0704:
                                                                                                                        ; CODE XREF: sub 06F0+1A-j
0704 36 00
0706 23
0707 1B
0708 7B
                                                           ld
inc
                                                                         (hl), 0
hl
                                                           dec
                                                                         de
                                                           ld
                                                                         a, e
d
0709 B2
070A 20 F8
                                                                         nz, loc_0704
```

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst 5/06/2011, 10:13:19 PM
070C C9
070C
070C
070D
                                              ; End of function sub_06F0
070D
070D
070D
070D
                                              ; SUBROUTINE SUBROUTINE
                                             clear foreground:
                                                                                                                                                                                   ; CODE XREF: 0000:049E1p
0700 21 00 B0
0700 0710 11 00 08
0713 36 24
0715 23
0716 1B
0717 7B
0718 B2
0719 20 F8
0719 20 F8
0718 21 00 08
0721 00 08
0721 0721 36 24
0723 23
0724 1B
0726 B2
0727 20 F8
0729 C9
0729
0729
072A
072A
                                                                                                                                                                                   ; 0000:04F61p ...
; foreground colour RAM
; length of RAM
                                                                                                             hl, 0B000h
de, 800h
                                                                                        ld
                                              loc_0713:
                                                                                                                                                                                   ; CODE XREF: clear_foreground+C|j
                                                                                         ld
inc
                                                                                                             (hl), 24h ; '$'
                                                                                         dec
                                                                                                              de
                                                                                        ld
or
jr
ld
                                                                                                              a,
d
                                                                                                                    е
                                                                                                             nz, loc_0713
hl, 0C000h
                                                                                                                                                                                   ; clear colour RAM
                                                                                                                                                                                   ; foreground video RAM ; length of RAM
                                                                                         ld
                                                                                                              de, 800h
                                              loc_0721:
                                                                                                                                                                                   ; CODE XREF: clear_foreground+1A|j
                                                                                                              (hl), 24h; '$'
                                                                                         1d
                                                                                        inc
dec
                                                                                                              de
                                                                                         ld
                                                                                                             a, e
d
                                                                                         or
jr
                                                                                                              nz, loc_0721
                                                                                                                                                                                   ; clear foreground video RAM
                                                                                         ret
                                              ; End of function clear foreground
                                               ; SUBROUTINE ...
072A
072A
072A
072A 21 00 B8
072A
                                              clear_background:
                                                                                                                                                                                        CODE XREF: 0000:04A11p
                                                                                                                                                                                      0000:04F91p ...
background colour RAM
                                                                                         ld
                                                                                                              hl, 0B800h
de, 800h
                                                                                                                                                                                   ; length of RAM
                                              loc_0730:
                                                                                                                                                                                   ; CODE XREF: clear_background+C|j
                                                                                                             (hl), 3
hl
de
                                                                                        ld
inc
                                                                                         dec
ld
                                                                                                            a, e
d
                                                                                         or
jr
ld
                                                                                                             nz, loc_0730
hl, 0C800h
                                                                                                                                                                                  ; clear colour RAM ; background video RAM
                                                                                                                                                                                   ; length of RAM
                                                                                         ld
                                                                                                              de, 800h
                                                                                                                                                                                   ; CODE XREF: clear_background+1A|j
                                               loc_073E:
                                                                                                              (hl), 0
                                                                                         ld
                                                                                         inc
                                                                                                              hl
                                                                                                              de
a, e
d
                                                                                         dec
                                                                                         or
                                                                                                              nz, loc_073E
                                                                                                                                                                                   ; clear background video RAM
                                             ret; End of function clear_background
                                               ; SUBROUTINE ...
                                                                                                                                                                                   ; CODE XREF: 0000:05CA<sup>†</sup>p; 0000:05FE<sup>†</sup>p ...; background colour RAM
                                               clear_background_with_88:
                                                                                                              hl, 0B800h
                                                                                         ld
074A 11 00 08
074D 074D 074D 074D 074D 074D 074D 075D 1B 075D 21 00 08
075S 2D 075S 2D
                                                                                         ld
                                                                                                              de, 800h
                                                                                                                                                                                   ; length of RAM
                                              loc_074D:
                                                                                                                                                                                   ; CODE XREF: clear_background_with_88+C+j
                                                                                                              (hl), 0
                                                                                         ld
                                                                                        inc
dec
                                                                                                             hl
de
                                                                                                            de
a, e
d
nz, loc_074D
hl, 0C800h
a, 88h; 'ê'
b, 1Ch
                                                                                        or
jr
ld
ld
                                                                                                                                                                                   ; clear background colour RAM ; background video RAM
                                                                                                                                                                                   ; a line of characters
                                                                                         ld
                                               loc_075C:
                                                                                                                                                                                   ; CODE XREF: clear_background_with_88+18-j
                                                                                         ld
                                                                                                              (hl), a
                                                                                        inc
inc
djnz
ld
                                                                                                              hl
                                                                                                             a
loc_075C
hl, 0C800h
                                                                                                                                                                                      clear a line
                                                                                                                                                                                       background video RAM
                                                                                        ld
ld
                                                                                                              de, 0C81Ch
bc, 7E4h
                                                                                                                                                                                   ; next line
                                                                                         ldir
                                                                                                                                                                                   ; clear background video RAM
                                                                                         ret
                                              ; End of function clear_background_with_88
                                               ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                  ; CODE XREF: 0000:0674<sup>p</sup>; 0000:06AC<sup>p</sup>
                                             sub_076D:
076D 06 40

076D 06 40

076F 21 80 81

0772 11 C0 81

0775

0775 4E

0776 1A

0777 77

0778 79

0779 12

077A 2C

077B 1C

077C 10 F7

077E C9
 076D 06 40
                                                                                                             b, 40h; '@'
hl, 8180h
de, 81C0h
                                                                                        ld
ld
                                                                                         ld
                                              loc_0775:
                                                                                                                                                                                   ; CODE XREF: sub_076D+F|j
                                                                                                              c, (hl)
                                                                                         ld
                                                                                        ld
ld
ld
ld
                                                                                                              a, (de)
(hl), a
a, c
(de), a
```

inc inc djnz

; End of function sub 076D

077E

loc_0775

```
077F
                                                 ; SUBROUTINE
077F
077F
077F
077F
077F 3A 21 80
0782 21 E5 0B
0785 CF
0786 5E
                                                                                                                                                                                                   ; CODE XREF: 0000:05ECTp
                                                 print_player_start_msgs:
                                                                                                                       a, (8021h)
hl, 0BE5h
                                                                                                                                                                                                   ; current player?
; table of pointers
; offset into table for current player
                                                                                                1d
                                                                                                ld
0786 5E
0787 23
0788 56
0788 56
0789 21 17 12
078C 06 0A
078B 0E C0
0790 CD 1F 14
0793 21 19 10 08
0799 06 06
0798 0E C0
0798 0E C0
0798 0E 1F 14
07A0 11 FD 0B
07A8 0E C0
07A8 0E C0
07AA CD 1F 14
07AD 21 1B 15
07BO 3A 83 81
07BO 3B 83 81
07BO 3C 4F 14
07BO C9
                                                                                                                        e, (hl)
                                                                                                 ld
                                                                                                                        h1
                                                                                                                       d, (hl)
hl, 1217h
b, 10
                                                                                                                                                                                                    ; "PLAYER <n>"
                                                                                                                                                                                                         screen position
                                                                                                 ld
                                                                                                                       b, 10

c, 0COh; 'L'

print string

hl, 1019h

de, 0BDFh

b, 6

c, 0COh; 'L'

print string

de, 0BFDh

hl, 131Bh

b, 13

c, 0COh; 'L'

print string
                                                                                                 ld
                                                                                                                                                                                                    ; length
                                                                                                ld
call
ld
                                                                                                                                                                                                   ; screen position ; "READY!"
                                                                                                ld
ld
ld
call
                                                                                                                                                                                                    ; length
                                                                                                ld
ld
ld
                                                                                                                                                                                                   ; "SOLVALOU LEFT'
                                                                                                                                                                                                   ; screen position ; length
                                                                                                 ld
                                                                                                call
ld
ld
call
                                                                                                                       print_string
hl, 151Bh
a, (8183h)
                                                                                                                                                                                                   ; solvalou left?
                                                                                                                       a, (818311)
display_char
07B6 C9
07B6
07B6
                                                 ret; End of function print_player_start_msgs
 07B7
07B7
07B7
07B7
07B7
                                                  ; SUBROUTINE SUBROUTINE
                                                 wipe_player_start_msgs:
    ld
    ld
                                                                                                                      hl, 1217h
b, 10
a, 24h; '$'
c, 0C0h; 'L'
display_char_B_times
hl, 1019h
b, 6
a, 24h; '$'
c, 0C0h; 'L'
display_char_B_times
b, 16
hl, 151Bh
                                                                                                                                                                                                    ; CODE XREF: 0000:05F51p
07B7
07B7 121 17 12
07BA 06 0A
07BC 3E 24
07BE 0E C0
07C0 CD 5D 14
07C3 21 19 10
07C6 06 06
07C8 3E 24
07CA 0E C0
07CC CD 5D 14
07CF 06 10
07DC 1 1B 15
07D4 3E 24
07D6 0E C0
07D8 CD 5D 14
07D6 0E C0
07D8 CD 5D 14
 07B7
                                                                                                                                                                                                    ; length
                                                                                                 ld
                                                                                                 ld
                                                                                                 call
ld
                                                                                                                                                                                                   ; wipe "PLAYER ONE"
                                                                                                 ld
                                                                                                                                                                                                    ; length
                                                                                                 ld
ld
                                                                                                                                                                                                   ; wipe "READY!"; length
                                                                                                call
ld
                                                                                                                       hl, 151Bh
a, 24h; '$'
c, 0C0h; 'L'
                                                                                                ld
ld
                                                                                                 ld
                                                                                                                                                                                                   ; wipe "<n> SOLVALOU LEFT"
                                                                                                call
                                                                                                                        {\tt display\_char\_B\_times}
07DB C9
07DB
07DB
                                                 ret
; End of function wipe_player_start_msgs
; UNDER SUBROUTINE
                                                 print_copyright_msgs:
                                                                                                                                                                                                    ; CODE XREF: 0000:05021p
                                                                                                                                                                                                    ; 0000:0C4E/p ...
                                                                                                                                                                                                   ; "(C)(P) 1982 NAMCO LTD."
                                                                                                                       de, 3ECDh
b, 19
c, 0C0h; 'L'
                                                                                                 ld
                                                                                                ld
ld
                                                                                                                                                                                                    ; length
                                                                                                                       print_string
hl, 1021h
de, 3EE0h
b, 7
                                                                                                 call
                                                                                                ld
ld
ld
                                                                                                                                                                                                    ; "NAMCO" (logo)
                                                                                                                                                                                                   ; length
                                                                                                                        b, 7 print_string
                                                                                                 call
                                                                                                                        hl, 1021h
b, 7
                                                                                                ld
ld
                                                                                                                       b, 7
c, 0B0h; '\"
                                                                                                                                                                                                    ; length
                                                                                                 ld
                                                                                                 ld
                                                                                                                               1Ah
07FD CD 5D 14
0800 C9
0800
                                                                                                call
ret
                                                                                                                        display_char_B_times
                                                 ; End of function print copyright msgs
 0800
 0801
0801
0801
                                                   ; SUBROUTINE
0801

0801

0801

0801

21

23

09

0804

11

09

0807

06

06

0809

02

0808

02

0808

03

0812

05

0812

07

0814

07

0815

07

0814

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0815

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0816

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0816

08
 0801
                                                  display_credits:
                                                                                                                       hl, 923h
de, 0BD9h
b, 6
c, 0C0h; L
                                                                                                                                                                                                   ; CODE XREF: 0000:05091p
                                                                                                                                                                                                   ; "CREDIT"
                                                                                                 ld
                                                                                                 1d
                                                                                                                                                                                                    ; length
                                                                                                 ld
                                                                                                                        print_string
                                                                                                 call
                                                                                                 dec
                                                                                                                       a, (8029h)
                                                                                                ld
rrca
                                                                                                                                                                                                   ; credits
                                                                                                 rrca
                                                                                                 rrca
                                                                                                 rrca
and
                                                                                                                       display_char
a, (8029h)
0Fh
                                                                                                 call
                                                                                                                                                                                                    ; credits
                                                                                                 ld
                                                                                                 and
                                                 and Uffn
jp display_char
; End of function display_credits
 0820
0823
0823
                                                   ; SUBROUTINE SUBROUTINE
 0823
0823
0823
0823
                                                                                                                                                                                                   ; CODE XREF: 0000:050C1p; credits; only 1?; yes, skip
                                                 print_start_one_or_two_players:
0823
0823 3A 29 80
0826 FE 01
0828 28 01
082A AF
082B
                                                                                                                       a, (8029h)
1
                                                                                                 ld
                                                                                                 cp
ir
                                                                                                                       z, loc_082B
a
                                                                                                                                                                                                   ; CODE XREF: print_start_one_or_two_players+5\(\frac{1}{2}\) ; table of messages ; get offset for 1/more credits
                                                  loc 082B:
 082B
 082B 21 B1 0B
                                                                                                                        hl, OBB1h
082E CF
082F 5E
                                                                                                rst
ld
                                                                                                                       e, (hl)
hl
 0830 23
                                                                                                 inc
                                                                                                                        d, (hl)
hl, 1519h
0831 56
0832 21 19 15
                                                                                                                                                                                                   ; "ONE ONLY/ONE OR TWO PLAYERS" ; screen position
```

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst 5/06/2011, 10:13:19 PM
0835 06 12
                                                                                                                                 ; length
                                ld c, OCOh; 'L'
jp print_string
; End of function print_start_one_or_two_players
0837 0E C0
0839 C3 1F 14
0839
0839
083C
083C
083C
                                 ; SUBBOUTINE SUBROUTINE
083C

083C

083C

083C

083C

21 17 15

083F 11 A0 0B

0842 06 11

0844 0E C0

0846 C3 1F 14
                                                                                                                                 ; CODE XREF: 0000:04FC1p
                                print_push_start_button:
                                print_push_start_button:

Id hl, 1517h
ld de, OBAOh
ld b, 17
ld c, OCOh; 'L'
jp print_string
; End of function print_push_start_button
                                                                                                                                 ; "PUSH START BUTTON'
                                                                                                                                 ; length
0846
0846
0849
0849
                                 ; SUBROUTINE
0849
0849
0849
0849 21 18 11
                                                                                                                                ; CODE XREF: 0000:066B†p; 0000:06A2†p; screen position; length
                                 wipe_game_over_player:
                                                                              hl, 1118h
b, 9
c, 0C0h; 'L'
a, 24h; '$'
                                                               1d
0849
0849
084C 06 09
084E 0E C0
0850 3E 24
                                                                ld
ld
                                                                ld
                                                                                                                                ; wipe "GAME OVER"
; screen position
; length
; wipe "PLAYER ONE/TWO"
0852 CD 5D 14
0855 21 1A 12
0858 06 0A
085A C3 5D 14
                                                               call
ld
ld
                                                                               display_cl
hl, 121Ah
b, 10
                                                                                              _char_B_times
                                jp display_char_B_times; End of function wipe_game_over_player
085A
085A
085D
                                 ; SUBROUTINE
085D
085D
085D
085D
                                display_game_over:
                                                                                                                                    CODE XREF: 0000:06941p
085D 21 18 11
                                                                                                                                 ; display_game_over_player|p; screen position
; "GAME_OVER"
                                ld h1, 1118h
ld de, 0B97h
ld b, 9
ld c, 0C0h; 'L'
jp print_string
; End of function display_game_over
085D 21 10 11
085D 0860 11 97 0B
0863 06 09
                                                                                                                                 ; length
0865 0E C0
0867 C3 1F 14
0867
0867
086A
086A
086A
                                        SUBROUTINE
086A 086A CD 5D 08 086A CD 5D 08 08670 21 E5 0B 0873 CF 0874 5E 0876 56 0877 21 1A 12 087A 06 0A 087C 0E CO 087E C3 1F 14 0878
086A
                                 display_game_over_player:
call d
ld a
                                                                                                                                 ; CODE XREF: 0000:065D1p
                                                                               display_game_over
a, (8021h)
hl, 0BE5h
                                                                                                                                ; current player?
; table of msgs
; get entry for current player
                                                                ld
                                                                rst
ld
                                                                inc
                                                                               hl
                                                                              d, (h1)
h1, 121Ah
b, 10
c, 0C0h; 'L'
                                                                                                                                 ; "PLAYER ONE/TWO"
                                                                ld
                                                                                                                                 ; screen position
; length
                                                                ld
ld
                                                                ld
                                ip print_string
; End of function display_game_over_player
087E
087E
0881
0881
                                 ; SUBROUTINE SUBROUTINE
0881
0881

0881

0881

0884

4F

0885 E6 0F

0887 C0

0888 79

0889 0F

0880 0F

0880 0F

0880 0F

0880 E6 01

0885 E6 01

0885 E 80 D

0891 21 1C 12

0894 11 8C 0B

0897 06 0B

0899 0E C0

089B C3 1F 14

089E

089E

089E
0881
                                 flash_insert_coin:
                                                                                                                                 ; CODE XREF: 0000:04E31p
                                                               ld
ld
                                                                               a, (8001h)
                                                                               c, a
0Fh
                                                                and
                                                                ret
ld
                                                                rrca
                                                               rrca
rrca
rrca
and
                                                                              z, wipe_insert_coin
hl, 121Ch
de, 088Ch
b, 11
c, 0C0h; 'L'
                                                               jr
ld
ld
ld
                                                                                                                                 ; screen location ; "INSERT COIN"
                                                                                                                                 ; length
                                                                1d
                                                                jр
                                                                               print_string
089E
                                 wipe_insert_coin:
                                                                                                                                 ; CODE XREF: flash_insert_coin+E^j
089E 089E 21 1C 12 08A1 06 0B 08A3 0E CO 08A5 3E 24 08A7 C3 5D 14 08A7
                                wipe_insert_coin:

ld hl, 121Ch

ld b, 11

ld c, 0COh; 'L'

ld a, 24h; '$'

jp display_char_B_times
; End of function flash_insert_coin
                                                                                                                                 ; length
                                                                                                                                 ; wipe "INSERT COIN"
08AA
08AA
08AA
                                 ; UBROUTINE SUBROUTINE
08AA
08AA
08AA 21 04 00
                                 sub_08AA:
                                                                                                                                 ; CODE XREF: 0000:0505<sup>†</sup>p; 0000:0C54<sup>†</sup>p ...
                                                                             hl, 4
(800Ch), hl
c, 0C8h; 'L'
hl, 1509h
de, 0A9Fh
b, 18
print_string
hl, 160Ah
de, 0AB1h
b, 19
print_string
hl, 150Bh
de, 0AC4h
b, 18
print string
                                                                               hl, 4
                                                                ld
08AA
08AD 22 0C 80
08AD 22 0C 80

08BO 0E C8

08B2 21 09 15

08B5 11 9F 0A

08B8 06 12

08BA CD 1F 14

08C0 11 B1 0A

08C3 06 13

08C5 CD 1F 14

08C8 21 0B 15

08CB 11 C4 0A

08CB 11 C4 0A

08CE 06 12

08D0 CD 1F 14
                                                               ld
ld
ld
                                                                                                                                 ; screen position
                                                               ld
ld
call
                                                                                                                                 ; length
                                                                                                                                 ; screen position
                                                                ld
                                                               ld
call
ld
                                                                                                                                 ; length
                                                                                                                                 ; screen position
                                                                ld
                                                                              b, 18
print_string
                                                                                                                                 ; length
```

call ld ld

jp di ; End of function sub_08AA

09E5 09E5 09E8

09E8 09E8

display_char_B_times hl, 150Eh b, 16

display_char_B_times

; SUBROUTINE CONTINE

; screen position ; length

```
; CODE XREF: 0000:0D67 p
     09E8
                                                     sub 09E8:
    09E8 21 0A 16
09EB 11 21 0B
09EE 0E C0
                                                                                                                          hl, 160Ah
de, 0B21h
c, 0C0h; 'L'
b, 19
                                                                                                                                                                                                     ; screen position
                                                                                                    ld
     09F0 06 13
                                                                                                    1d
                                                                                                                                                                                                    ; length
    09F2 CD 1F 14
09F5 21 0B 15
09F8 11 34 0B
                                                                                                                          print_string
hl, 150Bh
de, 0B34h
                                                                                                    call
ld
                                                                                                                                                                                                    ; screen position
                                                                                                    ld
     09FB 06 12
                                                                                                    1d
                                                                                                                           b, 18
                                                                                                                                                                                                    ; length
                                                                                                                         b, 18
print_string
hl, 150Ch
de, 0B46h
b, 18
    09FB 06 12
09FD CD 1F 14
0A00 21 0C 15
0A03 11 46 0B
                                                                                                    call
ld
                                                                                                                                                                                                    ; screen position
    0A03 11 46 0B
0A06 06 12
0A08 CD 1F 14
0A0B 21 0D 16 6
0A0E 11 58 0B
0A11 06 13
0A13 CD 1F 14
0A16 21 0E 17
0A19 11 6B 0B
0A1C 06 14
0A1E CD 1F 14
0A21 21 0F 17
0A24 11 7F 0B
0A27 06 0D
0A29 CD 1F 14
0A2C 3E 1B
0A2E 21 0A 16
                                                                                                    ld
                                                                                                    ld
                                                                                                                                                                                                     ; length
                                                                                                                          print string
hl, 160Dh
de, 0B58h
b, 19
                                                                                                    call
ld
                                                                                                                                                                                                    ; screen position
                                                                                                    ld
                                                                                                                         de, 0B58h
b, 19
print string
hl, 170Eh
de, 0B6Bh
b, 20
print string
hl, 170Fh
de, 0B7Fh
b, 13
print string
                                                                                                    14
                                                                                                                                                                                                    ; length
                                                                                                    call
ld
                                                                                                                                                                                                    ; screen position
                                                                                                    ld
                                                                                                    ld
                                                                                                                                                                                                    ; length
                                                                                                   call
ld
                                                                                                                                                                                                    ; screen position
                                                                                                   ld
ld
                                                                                                                                                                                                    ; length
                                                                                                                          print_string
                                                                                                   call
                                                                                                                                                                                                      ; length
                                                                                                    ld
                                                                                                                           a. 27
                                                                                                                         a, 27
hl, 160Ah
c, 080h; '\"'
b, 19
display_char_B_times
    0A2E 21 0A 16
0A31 0E B0
0A33 06 13
0A35 CD 5D 14
                                                                                                   ld
ld
                                                                                                                                                                                                      ; screen position
                                                                                                                                                                                                    ; length
                                                                                                    ld
                                                                                                    call
    0A38 21 0B 15
0A3B 06 12
0A3D CD 5D 14
0A40 21 0C 15
                                                                                                                          hl, 150Bh
b, 18
                                                                                                                                                                                                     ; screen position ; lenngth
                                                                                                    ld
                                                                                                    ld
                                                                                                                         display_char_B_times
hl, 150Ch
b, 18
                                                                                                    call
                                                                                                                                                                                                    ; screen position ; length
                                                                                                    ld
    0A43 06 12
0A45 CD 5D 14
0A48 21 0D 16
0A4B 06 13
                                                                                                                         b, 18
display_char_B_times
h1, 160Dh
b, 19
char_B_times
                                                                                                    ld
                                                                                                    call
                                                                                                                                                                                                    ; screen position ; length
                                                                                                    ld
                                                                                                    ld
    0A4D CD 5D 14
0A50 21 0E 17
0A53 06 14
                                                                                                    call
ld
                                                                                                                          display_char_B_times
hl, 170Eh
b, 20
                                                                                                                                                                                                      ; screen position
                                                                                                    ld
                                                                                                                                                                                                     ; length
    0A55 CD 5D 14
0A58 21 0F 17
0A5B 06 0D
0A5D C3 5D 14
                                                                                                                         display_char_B_times
hl, 170Fh
b, 13
display_char_B_times
                                                                                                    call
                                                                                                                                                                                                     ; screen position
                                                                                                    ld
                                                                                                                                                                                                      ; length
                                                                                                    αĖ
     0A5D
                                                     ; End of function sub_09E8
    0A5D
0A5D
0A60 2..
0A60 2..
0A60 52 54
0A71 5E 5F 2A U
0A71 61 62 63 64+
0A7F 6B 6C 6D 6E+
0A7F 6F 70 71 72+
9F 7B 7C 7D 7C
78 80 81 82-
72 C3
                                                                                                    .db 2Ah, 51h, 52h, 53h, 52h, 54h, 55h, 56h, 24h, 57h, 58h
.db 59h, 5Ah, 5Bh, 5Ch, 5Dh, 52h
.db 5Eh, 5Fh, 2Ah, 60h, 61h, 62h, 63h, 64h, 65h, 66h, 67h
                                                                                                    .db 68h, 69h, 6Ah
                                                                                                    .db 6Bh, 6Ch,
.db 76h, 77h,
.db 7Bh, 7Ch,
                                                                                                                                                         6Eh, 6Fh, 70h, 71h, 72h, 73h, 74h, 75h
                                                                                                                                           6Dh.
                                                                                                                                           78h,
7Dh,
7Fh,
                                                                                                                                                          79h,
7Eh,
                                                                                                                                                                        7Ah
7Fh, 80h, 81h, 82h, 83h, 84h, 85h
                                                                                                    .db 86h, 87h, 7Fh, 88h, 89h
db 0C0h, OC1h, OC2h, OC3h, OC2h, OC4h, OC5h, OC1h, OC6h
db OC7h, OC1h, OC8h, OC1h, OC9h, OCAh, OCBh, OCAh, OCCh
db OCDh, OCEh, OCFh, OD0h, OD1h, OD2h, OD3h, OD4h, OD5h
    0A9F C0 C1 C2 C3+
0A9F C2 C4 C5 C1+
0AB1 CD CE CF D0+
    OAB1 D1 D2 D3 D4+
OAB1 D5 D6 D7 D8+
OAC4 E0 E1 E2 E3+
OAC4 E4 E5 E6 E7+
                                                                                                    .db 0D6h, 0D7h, 0D8h, 0D9h, 0DAh, 0D8h, 0DCh, 0DDh, 0DEh
.db 0DFh
.db 0E0h, 0E1h, 0E2h, 0E3h, 0E4h, 0E5h, 0E6h, 0E7h, 0E8h
.db 0E9h, 0EAh, 0E8h, 0ECh, 0EDh, 0EEh, 0EFh, 0F0h, 0F1h
    OAD6 F2 F3 F4 F5+
OAD6 F6 F7 F8 F9+
OAD6 FA FB FC FD+
OAE9 A5 A6 A7 A8+
                                                                                                    .db 0F2h, 0F3h, 0F4h, 0F5h, 0F6h, 0F7h, 0F8h, 0F9h, 0FAh
db 0FBh, 0FCh, 0FDh, 0FEh, 0FFh, 0A0h, 0A1h, 0A2h, 0A3h
db 0A4h
db 0A5h, 0A6h, 0A7h, 0A8h, 0A9h, 0AAh, 0ABh, 0ACh, 0ADh
    0AE9 A9 AA AB AC+
0AE9 AD AE AF B0+
0AFD B9 BA BB BB+
0AFD BB BB BB BB+
                                                                                                    .db 0AEh, 0AFh, 0B0h, 0B1h, 0B2h, 0B3h, 0B4h, 0B5h, 0B6h
.db 0B7h, 0B8h
.db 0B9h, 0BAh, 0BBh, 0BBh, 0BBh, 0BBh, 0BBh, 0BCh
.db 0BDh, 0BDh, 0BDh, 0BEh, 0BBh, 0BBh, 0BBh, 0BFh
                                                                                                   db 0BDh, 0BDh, 0BDh, 0BEh, 0BEh, 0BBh, 0BBh, 0BBh, 0BFh db 0FOh db 0FOh .db 0FOh, 0F2h, 0BBh, 0F3h, 0F4h, 0F4h, 0F4h, 0F4h, 0F5h db 0F6h, 0F6h, 0F6h, 0F7h, 0F4h, 0F4h, 0F4h, 0F4h, 0F8h db 8Ah, 8Bh, 8Ch, 8Bh, 8Bh, 8Bh, 8Bh, 8Bh, 8Ph, 99h db 93h, 94h, 87h, 95h, 96h, 97h, 98h, 99h db 93h, 98h, 9Ch, 9Dh, 9Ch, 9Eh, 9Fh, 0A0h, 0A1h, 0A2h db 0A3h, 0A4h, 0A5h, 0A6h, 0A7h, 0A8h, 0A9h, 0AAh db 0ABh, 0ACh, 0ADh, 0AEh, 0AFh, 0BOh, 0B1h, 0B2h, 0B3h db 0B4h, 0B5h, 0B6h, 0B7h, 0B8h, 0A7h, 0B9h, 9Ah, 0BAh db 0ABh, 0BBh, 0AAh, 9Ah, 0BCh, 0BDh, 0BEh, 0BFh, 0COh db 0C1h, 0C2h, 9Ah, 0C3h, 0AAh, 0C4h, 0C5h, 0C6h, 0C7h db 0C8h
    0AFD BC BD BD BD+
0B10 F1 F2 BB F3+
0B10 F4 F4 F4 F4+
0B21 8A 8B 8C 8D+
     0B21
                  8E 8D 8F
                                            90+
     0B34
0B34
                  9A 9B 9C 9D+
9C 9E 9F AO+
    0B46 AB AC AD AE+
0B46 AF BO B1 B2+
0B58 AB BB AA 9A+
0B58 BC BD BE BF+
    0B58 C0 C1 C2 9A+
0B6B AB BB C9 CA+
0B6B CA CB CC CD+
0B6B CE CF D0 D1+
                                                                                                    .db 0C8h .db 0ABh, 0C9h, 0CAh, 0CAh, 0CBh, 0CCh, 0CDh, 0CEh .db 0CFh, 0D0h, 0D1h, 0D2h, 0CBh, 0CAh, 0CAh, 0D3h, 0D4h .db 0D5h, 0D6h
                                                                                                   .db 0D7h, 0D6n.
db 0D7h, 0AAh, 24h, 24h, 24h, 24h, 24h, 24h, 0D8h, 0D9h.
db 0D9h, 0D9h, 0DAh
db 12h, 17h, 1Ch, 0Eh, 1Bh, 1Dh, 24h, 0Ch, 18h, 12h, 17h; "INSERT COIN"
db 10h, 0Ah, 16h, 0Eh, 24h, 18h, 1Fh, 0Eh, 1Bh; "GAME OVER"
db 19h, 1Eh, 1Ch, 11h, 24h, 1Ch, 1Dh, 0Ah, 1Bh, 1Dh, 24h; "PUSH START BUTTON"
db 0Bh, 1Eh, 1Dh, 1Bh, 17h
dw 0BC7h
dw 0BC7h

; ptr "ONE OR TWO PLAYERS"
db 0BD5h
    0B7F D7 AA 24 24+
0B7F 24 24 24 24+
0B8C 12 17 1C 0E+
0B97 10 0A 16 0E+
    0BA0 19 1E 1C 11+
0BA0 24 1C 1D 0A+
0BB1 C7 0B
0BB3 B5 0B
                                                                                                                                                                                                     ; ptr "ONE OR TWO PLAYERS"; ptr "ONE PLAYER ONLY "
15h, Oah, 22h, Oeh, 18h; "ONE PLAYER ONLY "
24h
                                                                                                    .dw 0BB5h
                                                                                                   0BB5 24 18 17 0E+
0BB5 24 19 15 0A+
0BC7 18 17 0E 24+
0BC7 18 1B 24 1D+
                                                                                                                                                                                      19h,
24h,
1Bh,
1Bh,
                                                                                                   ..., OBI, 24n, 18h, 18h, 24h, 1Dh, 20h, 18h, 24h; "ONE OR TWO PLA
.db 19h, 15h, 0Ah, 22h, 0Eh, 18h, 1Ch
.db 0Ch, 18h, 0Eh, 0Dh, 12h, 1Dh; "CREDIT"
.db 18h, 0Eh, 0Ah, 0Dh, 22h, 2Ch; "READY!"
.db 18h, 0Eh, 0Ah, 0Dh, 22h, 2Ch; "READY!"
.dw 0BE9h
.ptr "PLAYER ONE"
.db 0BF3h
.db 19h, 15h, 0Ah, 22h, 0Eh, 18h, 24h, 18h, 17h, 0Eh; "PLAYER ONE"
.db 19h, 15h, 0Ah, 22h, 0Eh, 18h, 24h, 1Dh, 20h, 18h; "PLAYER TWO"
.db 1Ch, 18h, 15h, 1Fh, 0Ah, 15h, 18h, 1Eh, 24h, 15h, 0Eh; "SOLVALOU LEFT"
.db 0Fh, 1Dh
.db 5;
.db 2 :
                                                                                                                                                                                                      24h, 1Dh, 20h, 18h, 24h; "ONE OR TWO PLAYERS"
     0BD9 0C 1B 0E 0D+
0BDF 1B 0E 0A 0D+
     0BE5 E9 0B
    OBE5 E9 OB
OBE7 F3 OB
OBE9 19 15 OA 22+
OBF3 19 15 OA 22+
OBFD 1C 18 15 1F+
OCOA 05
OCOB 02
OCOC 01
                                                                                                    .db
.db
.db
     0C0C
                                                                                                   .db
.db 3,
.db 2, 2
db 14h;
                                                                                                     . db
     0C0D
     0C0E
0C10
                  02
14
                           02
                                                                                                                                                                                                     ; bytes to write to 51XX
     0C11 0C
                                                                                                                  24h ;
0Ch ;
                                                                                                                                  $
```

SUBROUTINE **III**

0DD5 0DD5 0DD5

c, loc_0E31

loc_0E28

S U B R O U T I N E

c hl

sub

dinz

pop ret ; End of function sub 0E23 ; CODE XREF: sub_0E23+7[†]j

; CODE XREF: sub_0E23+A^j

loc_0E2F:

loc_0E31:

0E2F 0E2F 91 0E30 23 0E31 0E31 0 F5 0E33 C1 0E34 C9 0E34

0E34 0E35 0E35

```
Page: 19
```

```
0E35
0E35
0E35
0E35
0E35 C5
0E36 D5
0E37 E5
0E38 06 08
0E3A 11 40 00
0E3D 7D
1E3E 6C
3F 62
                                                                                                                                                                                                              sub_0E35:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:0DECTp
                                                                                                                                                                                                                                                                                                                                                                             push
                                                                                                                                                                                                                                                                                                                                                                                                                                                        bc
de
hl
b, 8
de, 40h; '@'
a, 1
1, h
h, d
                                                                                                                                                                                                                                                                                                                                                                             push
push
ld
ld
                                        0E3D 7D 0E3E 6C 0E40 0E40 0E40 0E40 0E40 0E46 3F 0E46 0E46 8F 0E46 EF 7E 0E55 C9 0E55 0E55 0E55 0E56 EF 7E 0E5D 28 026 14 0E61 EF 0E5D 28 026 0E5D 28 
                                                                                                                                                                                                                                                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                                                                                                                                               ld
                                                                                                                                                                                                                loc_0E40:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0E35+1A|j
                                                                                                                                                                                                                                                                                                                                                                             and
sbc
                                                                                                                                                                                                                                                                                                                                                                                                                                                        nc, loc_0E46
hl, de
                                                                                                                                                                                                                                                                                                                                                                               jr
add
                                                                                                                                                                                                                loc_0E46:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; CODE XREF: sub_0E35+E^j
                                                                                                                                                                                                                                                                                                                                                                               ccf
                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                        a, a
hl, hl
                                                                                                                                                                                                                                                                                                                                                                               adc
                                                                                                                                                                                                                                                                                                                                                                                                                                                        hl, hl
a, a
hl, hl
loc_0E40
a, d
hl
de
bc
                                                                                                                                                                                                                                                                                                                                                                             add
adc
djnz
ld
                                                                                                                                                                                                                                                                                                                                                                             pop
pop
                                                                                                                                                                                                                                                                                                                                                                               pop
                                                                                                                                                                                                                                                                                                                                                                               ret
                                                                                                                                                                                                                   ; End of function sub_0E35
                                                                                                                                                                                                                                                                                                                                                                                                                                                          a, 40h; '@'
                                                                                                                                                                                                                                                                                                                                                                               add
                                                                                                                                                                                                                                                                                                                                                                           push
push
ld
bit
                                                                                                                                                                                                                                                                                                                                                                                                                                                          bc
hl
                                                                                                                                                                                                                                                                                                                                                                                                                                                          c, a
6, c
z, loc_0E61
                                                                                                                                                                                                                                                                                                                                                                             jr
neg
                                        loc_0E61:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:0E5D1j
                                                                                                                                                                                                                                                                                                                                                                                                                                                        7Fh ; ' '
hl, 0E71h
10h
                                                                                                                                                                                                                                                                                                                                                                               and
                                                                                                                                                                                                                                                                                                                                                                               ld
rst
                                                                                                                                                                                                                                                                                                                                                                                                                                                          a, (hl)
7, c
z, loc_0E6E
                                                                                                                                                                                                                                                                                                                                                                             ld
bit
                                                                                                                                                                                                                                                                                                                                                                               jr
                                                                                                                                                                                                                                                                                                                                                                               neg
                                                                                                                                                                                                                   loc_0E6E:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:0E6A†j
                                                                                                                                                                                                                                                                                                                                                                               gog
                                                                                                                                                                                                                                                                                                                                                                                                                                                          bc
                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
3;
6;
9;
                                                                                                                                                                                                                                                                                                                                                                               . db dc db d
                                                                                                                                                                                                                                                                                                                                                                                                                             0Ch;
10h;
13h;
                                                                                                                                                                                                                                                                                                                                                                                                                               16h
                                                                                                                                                                                                                                                                                                                                                                                                                             19h;
1Ch;
1Fh;
22h;
                                                                                                                                                                                                                                                                                                                                                                                                                           25h ;
28h ;
2Bh ;
                                                                                                                                                                                                                                                                                                                                                                                                                               2Eh
                                                                                                                                                                                                                                                                                                                                                                                                                             31h ;
33h ;
36h ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 6 9 < ? A D G I L N Q S U
                                                                                                                                                                                                                                                                                                                                                                                                                               39h ;
3Ch ;
                                                                                                                                                                                                                                                                                                                                                                                                                             3Fh
41h
                                                                                                                                                                                                                                                                                                                                                                                                                             44h;
47h;
49h;
4Ch;
                                                                                                                                                                                                                                                                                                                                                                                                                               4Eh:
                                                                                                                                                                                                                                                                                                                                                                                                                             51h;
53h;
55h;
                                                                                                                                                                                                                                                                                                                                                                                                                             58h;
5Ah;
5Ch;
5Eh;
                                                                                                                                                                                                                                                                                                                                                                                                                             60h
62h
64h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      b
d
f
h
j
k
                                                                                                                                                                                                                                                                                                                                                                                                                               66h ;
                                                                                                                                                                                                                                                                                                                                                                                                                             68h ;
6Ah ;
6Bh ;
                                                                                                                                                                                                                                                                                                                                                                                                                               6Dh ;
                                                                                                                                                                                                                                                                                                                                                                                                                             6Fh;
70h;
71h;
                                                                                                                                                                                                                                                                                                                                                                                                                             73h
74h
75h
76h
78h
79h
7Ah
7Ah
7Bh
7Ch
7Dh
                                                                                                                                                                                                                                                                                                                                                                                                                               7Dh
```

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst 5/06/2011, 10:13:19 FM
  0EAD 7E
0EAE 7F
0EAF 7F
0EBO 7F
                                                                                                                                        .db
                                                                                                                                                           7Eh ;
                                                                                                                                       .db
.db
                                                                                                                                                          7Fh; 
7Fh; 
7Fh; 
7Fh; 
7Fh; 
  0EB1
0EB2
0EB2
0EB2
                      7F
                                                                                                                                        .db
                                                                                                                                              S U B R O U T I N E
 OEB2
OEB2
OEB2
OEB3 CD C4 OE
OEB3 CD C4 OE
OEB6 E1
OEB7 CB 7D
OEB9 28 03
OEBB 2F
OEBC C6 81
OEBE
OEBE
                                                                       sub_0EB2:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_3365+10 p
                                                                                                                                     push
call
                                                                                                                                                                       sub_0EC4
                                                                                                                                      pop
bit
jr
                                                                                                                                                                      hl
7, 1
z, loc_0EBE
                                                                                                                                      cpl
                                                                                                                                                                      a, 81h ; 'ü'
                                                                       loc_OEBE:
                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0EB2+7↑j
  OEBE CB 7C
OECO C8
OEC1 ED 44
OEC3 C9
                                                                                                                                     bit
ret
neg
                                                                                                                                                                      7, h
0EC3 C9
0EC3
0EC3
0EC4
0EC4
0EC4
0EC4
0EC4
0EC5 DF
0EC5 DF
0EC6 67
0EC7 TD
0EC8 DF
0EC8 DF
0EC8 BC
0ECB 38 11
0ECB
0ECB
                                                                                                                                       ret
                                                                       ; End of function sub_0EB2
                                                                                                                                  SUBROUTINE III
                                                                       sub_0EC4:
                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0EB2+1^p
                                                                                                                                       ld
                                                                                                                                                                      a, h
18h
h, a
a, l
                                                                                                                                      rst
ld
ld
                                                                                                                                                                       a,
18h
                                                                                                                                       rst
                                                                                                                                      ld
cp
                                                                                                                                                                      1, a
                                                                      jr c,; End of function sub_0EC4
                                                                                                                                                                                 loc_0EDE
  0ECB
0ECD
0ECD
                                                                                                                                 SUBROUTINE
  0ECD

0ECD

0ECD

0ECD 2E 00

0ECF CD 23 0E

0ED2 29

0ED3 29

0ED4 20
                                                                       sub_0ECD:
                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:0EE0|p
                                                                                                                                                                       1, 0
                                                                                                                                       ld
                                                                                                                                                                     1, 0
sub_0E23
hl, hl
hl, hl
hl, hl
hl, hl
hl, hl
a, h
hl, 0EE7h
10h
a, (hl)
                                                                                                                                      call
add
add
 0ED3 29
0ED4 29
0ED5 29
0ED6 29
0ED7 7C
0ED8 21 E7 0E
0EDB D7
0EDC 7E
0EDD C9
0EDD
                                                                                                                                       add
                                                                                                                                      add
add
ld
ld
                                                                                                                                       ret
                                                                        ; End of function sub_OECD
   0EDD
0EDE
   0EDE
   0EDE
0EDE
0EDF
                                                                       loc_OEDE:
                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0EC4+7^j
 OEDE 7C
OEDF 65
OEDE 0C CD CD 0E
OEB3 2F
OEB4 C6 41
OEE6 C9
OEE6 00
OEE8 01
OEE9 03
OEEA 04
OEEB 05
OEEC 06
OEEC 06
OEEC 06
OEET 10
OEF1 10
OEF2 11
OEF5 11
OEF6 12
OEF7 13
OEF8 14
OEF9 15
OEF7 18
OEF7 18
OEF7 19
OEF7 18
OEF7 19
OF70 19
OF70 10
OF70 11
OF
                                                                                                                                      ld
ld
                                                                                                                                                                      a, h
h, l
                                                                                                                                      call
cpl
add
                                                                                                                                                                       sub_OECD
                                                                                                                                                                      a, 41h ; 'A'
                                                                                                                                       ret
                                                                                                                                       0;
1;
3;
4;
5;
                                                                                                                                                                  8
                                                                                                                                                          0Ah
0Bh
0Ch
0Dh
0Fh
10h
                                                                                                                                                          11h
12h
13h
14h
                                                                                                                                                         15h
16h
17h
18h
                                                                                                                                                         19h
19h
1Ah
                                                                                                                                                           1Bh
                                                                                                                                                          1Ch
1Dh
                                                                                                                                                          1Dh
1Eh
                                                                                                                                                           20h ;
                                                                                                                                        .db
   0F08
0F08
0F08
                                                                      do_54XX_transfers:
 call
call
                                                                                                                                                                       sub_0F12
sub_0F25
sub_0F38
                                                                                                                                       ret
                                                                                                                                              SU
                                                                                                                                                                       ROUTINE
                                                                       sub_0F12:
                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:0F081p
                                                                                                                                                                      a, (8085h)
a
   OF12 3A 85 80
OF15 A7
                                                                                                                                     ld
and
```

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst 5/06/2011, 10:13:19 PM
0F16 C8
0F17 21 80 80
0F1A 01 07 68
0F1D CD 10 01
0F20 AF
0F21 32 85 80
0F24 C9
0F24
                                                            ld
ld
call
                                                                           hl, 8080h
bc, 6807h
do_06XX_transfer
                                                                                                                          ; 68=54XX(W),7 bytes
                                                             xor
                                                                            a (8085h), a
                                                             ld
                                                             ret
0F24

0F24

0F25

0F25

0F25

0F25

0F25

0F25

0F25

0F28

0F28

0F28

0F28

0F28

0F20

0F20

0F20

0F30

0F30

0F30

0F31

0F37

0F37

0F37

0F38

0F38

0F38

0F38

0F38
                               ; End of function sub OF12
                               ; SUBROUTINE
                               sub_0F25:
                                                                                                                           ; CODE XREF: 0000:0F0B1p
                                                                           a, (8095h)
                                                             ld
                                                             and
                                                             ret
ld
                                                                           hl, 8090h
bc, 6807h
                                                                                                                          ; 68=54XX(W),7 bytes
                                                             ld
                                                             call
                                                                           do_06XX_transfer
                                                             xor
ld
                                                                            (8095h), a
                                                             ret
                               ; End of function sub_0F25
                               ; SUBROUTINE SUBROUTINE
0F38
0F38
0F38
                               sub_0F38:
                                                                                                                          ; CODE XREF: 0000:0F0E<sup>p</sup>
0F38 3A A6 80 0F3B A7 0F3C C8 0F40 01 08 68 0F43 CD 10 01 0F46 AF 0F47 3C A6 80 0F47 A2 A6 80 0F47 A2 A6 80
                                                             ld
                                                                           a, (80A6h)
                                                            and
ret
ld
                                                                           hl, 80A0h
                                                             ld
                                                                           bc. 6808h
                                                                                                                          ; 68=54XX(w),8 bytes
                                                             call
xor
                                                                            do_06XX_transfer
                                                                            a
(80A6h), a
                                                             ld
                                                             ret
OF4A
OF4A
                               ; End of function sub_0F38
 0F4B
0F4B
0F4B
0F4B
0F4B
                               ; SUBROUTINE SUBROUTINE
                               sub OF4B:
                                                                                                                          ; CODE XREF: sub_15FE+2A|p; sub_1772+29|p ...
hl
hl, (8008h)
a, l
a, a
a, a
a, a
                                                            push
ld
ld
                                                             add
add
                                                                          a, a
a, 1
a
1, a
a, h
84h; 'ä'
z, loc_0F5E
84h; 'ä'
nz, loc_0F5F
                                                             add
                                                            inc
ld
ld
                                                             and
                                                            xor
0F5E
0F5E 37
0F5F
                               loc_OF5E:
                                                                                                                          ; CODE XREF: sub_0F4B+D^j
0F5F
0F5F
0F5F 7C
0F60 8F
0F61 67
0F62 85
0F63 22 08 80
0F66 E1
0F67 C9
0F67
0F67
0F68
                               loc OF5F:
                                                                                                                          ; CODE XREF: sub 0F4B+11<sup>†</sup>j
                                                            ld
adc
                                                                           a, h
a, a
h, a
a, l
                                                             ld
                                                                           a, l
(8008h), hl
                                                             add
                                                             ld
                                                            pop
                                                                           hl
                                                             ret
                               ; End of function sub_0F4B
 0F68
                               ; SUBROUTINE SUBROUTINE
 0F68
0F68
0F68
                               sub_0F68:
                                                                                                                           ; CODE XREF: 0000:05D01p
 OF68 3A 83 81
                                                                                                                           ; 0000:13A0Fi
                                                                          a, (8183h)
a
z
0F68
0F6B A7
0F6C C8
0F6D 47
                                                             ld
                                                             and
                                                             ret
                                                             1d
                                                                           b, a
bc
0F6D 47

0F6E C5

0F6F 3E 25

0F71 21 23 1B

0F74 E5

0F75 0E C0

0F77 CD 5D 14

0F7A E1

0F7B C1

0F7C 0E B0

0F7C 3E 2A

0FFB C3 5D 14
                                                             push
ld
                                                                           a, 25h; '%'
hl, 1B23h
                                                             ld
                                                                          hl
c, OCOh; 'L'
display_char_B_times
                                                            push
ld
call
                                                            pop
pop
ld
ld
                                                                           hl
                                                                          bc
c, 0B0h; '\"
a, 2Ah; '*'
                                                                          a, 2Ah ; '*'
display_char_B_times
 0F80 C3 5D 14
                               jp di
; End of function sub_0F68
0F80
0F80
0F80
                                                             .db OFFh, OFFh, OFFh, OFFh, .db OFFh, OFFh, OFFh, OFFh, OFFh, OFFh, OFFh, OFFh,
 OF83 FF FF FF FF+
                                                                                                               OFFh,
                                                                                                                          OFFh,
                                                                                                                                     OFFh.
                                                                                                                                                OFFh,
                                                                                                                                                            0FFh
0F83 FF FF FFF+
0F83 FF FF FF FF+
                                                                                                               OFFh,
                                                                                                                          OFFh,
                                                                                                                                     OFFh,
                                                                                                                                                OFFh,
                                                                                                                                                           0FFh
0FFh
                                                             .db OFFh, OFFh,
                                                                                          OFFh,
                                                                                                    OFFh,
                                                                                                               OFFh,
                                                                                                                          OFFh,
                                                                                                                                     OFFh,
                                                                                                                                                OFFh,
                                                                                                                                                            0FFh
                                                             .db OFFh,
.db OFFh,
.db OFFh,
                                                                              OFFh,
OFFh,
OFFh,
                                                                                         OFFh,
OFFh,
OFFh,
                                                                                                    OFFh,
OFFh,
OFFh,
                                                                                                               OFFh,
OFFh,
OFFh,
                                                                                                                          OFFh,
OFFh,
OFFh,
                                                                                                                                     OFFh,
OFFh,
OFFh,
                                                                                                                                                OFFh,
OFFh,
OFFh,
                                                                                                                                                            OFFh
                                                                                                                                                            OFFh
OFFh
                                                             .db
.db
.db
                                                                   OFFh,
OFFh,
OFFh,
                                                                                          OFFh,
OFFh,
OFFh,
                                                                                                    OFFh,
OFFh,
OFFh,
                                                                                                               OFFh,
OFFh,
OFFh,
                                                                                                                          OFFh,
OFFh,
OFFh,
                                                                                                                                                OFFh,
OFFh,
OFFh,
                                                                               OFFh,
                                                                                                                                     OFFh,
                                                                                                                                                            0FFh
                                                                               OFFh,
OFFh,
                                                                                                                                     OFFh,
OFFh,
OFFh,
                                                                                                                                                            0FFh
                                                                                                                                                            OFFh
OFFh
                                                                                                                                                OFFh,
                                                                                                                          OFFh.
                                                              .db
                                                                    OFFh, OFFh,
                                                                                          OFFh.
                                                                                                    OFFh.
                                                                                                               OFFh,
                                                                                                                                     OFFh.
                                                                                                                                                OFFh.
                                                                                                                                                            0FFh
0F83 FF FF FF FF+
0F83 FF FF FF FF+
1000
                                                                   OFFh, OFFh,
OFFh, OFFh,
                                                                                         OFFh,
                                                                                                    OFFh,
OFFh,
                                                                                                               OFFh, OFFh,
OFFh, OFFh,
                                                                                                                                     OFFh,
OFFh,
                                                                                                                                                0FFh,
77h
                                                                                                                                                            0FFh
                                   SUBROUTINE ...
```

1000

.db 0, 30h, 0 ; 30,000 db 0Eh, 4Bh, 3Ah, 4Fh, 44h, 44h, 24h, 0Eh, 43h, 39h ; "Evezoo End" .db 0, 0, 0

30 00

1113 00 1116 OE 4B 3A 1120 OO 00 OO

```
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```

a nz, loc_1262 a, (8046h)

a, (00401) a z, loc_11F2 a, 1

hl, 0A002h

; CODE XREF: 0000:11EE†j

jr ld

and jr ld

loc_11F2:

11F2 21 02 A0

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst 5/06/2011, 10:13:19 PM
129F 86
                                                          add
                                                                        a, (hl)
12A0 C9
12A0
12A0
                              ret; End of function sub_127F
12A1
12A1
12A1
12A1
                                    SUBROUTINE ....
sub_12A1:
                                                                       ; CODE XREF: 0000:11AE p
                                                          ld
ld
                                                                                                                        screen position
"CONGRATULATIONS"
                                                          ld
                                                          ld
call
ld
                                                                                                                     ; length
                                                                                                                         screen position
"ENTER YOUR INITIAL"
                                                          ld
ld
call
ld
ld
ld
                                                                                                                      ; length
                                                                                                                      ; screen position
                                                                                                                      ; length
                                                          call
                                                                       display_char_B_times
hl, 160Ch
b, 18
display_char_B_times
                                                          ld
ld
                                                                                                                      ; screen position ; length
                                                          jр
                              ; End of function sub_12A1
12CA
12CA
12CA
12CA

12CD OC 18 17 10+

12CD 1B 0A 1D 1E+

12DC 2C

12DD 0E 17 1D 0E+

12DD 1B 24 22 18+
                                                          .db OCh, 18h, 17h, 10h, 1Eh, 0Ah, 1Dh, 1Eh, 15h, 0Ah, 1Dh; "CONGRATULATIONS"
.db 12h, 18h, 17h, 1Ch
.db 2Ch;,
.db OEh, 17h, 1Dh, 0Eh, 1Bh, 24h, 22h, 18h, 1Eh, 1Bh, 24h; "ENTER YOUR INITIAL"
.db 12h, 17h, 12h, 1Dh, 12h, 0Ah, 15h
12EF
12EF
12EF
                                                       SUBROUTINE
12EF
                                                                                                                        CODE XREF: sub_ODD5+6<sup>†</sup>j
sub_100B+9<sup>†</sup>p
screen position
"HIGH SCORE"
12EF 21 00 12 12EF 21 00 12 12EF 21 C3 3E 12F5 06 0A 12F7 0E C0 12F9 CD 1F 14 12FC 21 00 12 12FF 06 0A 1301 3E 1F 1303 0E B0 1305 CD 5D 14 1308 C9 1308 1308 1308
12EF
                              display_high_score_text:
                                                                       hl, 1200h
de, 3EC3h
b, 10
c, 0C0h; 'L'
print string
hl, 1200h
b, 10
a, 1Fh
c, 0B0h; 'M'
                                                          ld
                                                          ld
ld
                                                                                                                      ; length
                                                          call
ld
                                                                                                                      ; screen position
                                                          ld
ld
                                                                                                                      ; length
                                                          ld
                                                                        display_char_B_times
                                                          call
                              ret; End of function display_high_score_text
1309
1309
1309
1309
                                                        S U B R O U T I N E
1309
1309 01 99 03
130C
130C
130C 2B
130D 71
130D 10 FC
1310 C9
1310 C9
1310
1310
1309
                              sub_1309:
                                                                                                                      ; CODE XREF: 0000:005C1p
                                                          ld
                                                                        bc, 399h
                              loc 130C:
                                                                                                                     ; CODE XREF: sub 1309+5|j
                                                                        (hl), c
loc_130C
                                                         ld
djnz
                              ; End of function sub_1309
1311
1311
1311
1311
                                 S U B R O U T I N E
                                                                                                                      ; CODE XREF: 0000:005F1p
                              sub 1311:
1311
1314
1317
1317
1317
        11 82 81
CD 1A 13
11 C2 81
                                                         ld
call
ld
                                                                        de, 8182h
sub_131A
de, 81C2h
                              ; End of function sub 1311
1317
131A
131A
131A
131A
131A
131A 21 26
131D 06 03
131F
131F 131F 131F 131F 131F
                              ; SUBROUTINE
                              sub_131A:
                                                                                                                      ; CODE XREF: sub_1311+3\p
                                                                       hl, 8026h
b, 3
         21 26 80
                                                          ld
                                                          1d
                              loc_131F:
                                                                                                                      ; CODE XREF: sub_131A+C|j
                                                          ld
                                                                             (de)
131F 1A
1320 BE
1321 D8
1322 20
1324 1B
1325 2B
1326 10
1328 C9
1329
1329
1329
1329 1A
1329 1A
                                                          cp
ret
jr
dec
                                                                        (hl)
                                                                        c
nz, loc_1329
             05
                                                                        de
                                                          dec
djnz
                                                                        hl
             F7
                                                                        loc_131F
                                                          ret
                                                                                                                      ; CODE XREF: sub_131A+8<sup>†</sup>j; sub_131A+13<sup>†</sup>j
                              loc_1329:
                                                          ld
                                                                             (de)
1329
132A 77
132B 1B
132C 2B
132D 10 FA
132F 3A 21 80
1332 3C
1333 32 27 80
1336 CD 63 14
1339 C9
1339
1339
                                                                        (hl), a
de
hl
                                                          ld
dec
                                                          dec
                                                          djnz
ld
inc
                                                                        loc_1329
a, (8021h)
                                                                        a
(8027h),
sub_1463
                                                          ld
                                                          call
ret
                              ; End of function sub_131A
133A
133A
133A
                              loc 133A:
                                                                                                                      ; CODE XREF: 0000:00621j
133A CD 27 14
133D CD A9 13
1340 3A 8C 81
                                                                        sub_1427
sub_13A9
a, (818Ch)
                                                          call
```

call ld

SUBROUTINE

144E 144F 144F

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst
                                                                                                                                       5/06/2011, 10:13:19 PM
144F
144F
144F
144F E5
                                                                                                                  ; CODE XREF: print_player_start_msgs+34↑p ; display_credits+17↑p ...
                             display_char:
144F E5
144F
1450 F5
1451 CD 9B 14
1454 F1
1455 77
1456 E1
1457 25
1458 C9
                                                        push
push
call
                                                                      af
sub_149B
af
                                                         pop
ld
                                                                       (hl), a
                                                                                                                   ; display character
                                                        pop
dec
                                                                                                                   ; next character position
                                                                      h
                                                         ret
1458 C9
1458
1458
1459
1459
1459
1459 3E 24
145B 06 07
                              ; End of function display_char
                             loc_1459:
                                                                                                                   ; CODE XREF: sub_1427+1B†j
                                                                     a, 24h ; '$'
b, 7
                                                        ld
ld
 145D
145D
145D
145D
                                                       SUBROUTINE
145D
145D CD 4F 14
145D
1460 10 FB
                                                                                                                   ; CODE XREF: wipe_player_start_msgs+9<sup>†</sup>p
; wipe_player_start_msgs+15<sup>†</sup>p ...
                             display_char_B_times:
                                                                      display_char
                                                                      display_char_B_times
                                                        dinz
1462 C9
1462
1462
1462
1463
                             ret; End of function display_char_B_times
1463
1463
1463
                              ; UNDER SUBROUTINE
                             sub_1463:
 1463
                                                                                                                   ; CODE XREF: sub_ODD51p
1463
1463 0E C0
1463
1465 21 01 11
1468 11 26 80
146B 18 DA
                                                                                                                   ; sub_100B+C1p ...
                                                                      c, 0C0h ; 'L'
                             ld hl, 1101h
ld de, 8026h
jr print_score
; End of function sub_1463
 146B
146D
146D
146D
146D
                                    SUBROUTINE
146D
146D C5
146D
146E 47
                             print_bcd_value:
                                                                                                                  ; CODE XREF: print_score+4\p; print_bcd_value+2B\pi
                                                                      bc
                                                        push
146E 47
146F 1A
1470 0F
1471 0F
1472 0F
1473 0F
1474 E6 0F
1476 20 07
1478 05
1479 3E 24
147B F2 81 14
147F F
147F 147F 06 00
1481 1481 CD 4F 14
1484 1A
1485 E6 0F
1487 20 07
1488 05
1487 20 07
1488 3E 24
1488 E2 92 14
                                                        ld
ld
rrca
                                                                      b, a
                                                                            (de)
                                                                                                                   ; get score digit
                                                         rrca
                                                         rrca
                                                         rrca
and
                                                                                                                   ; MS nibble
                                                                      nz, loc_147F
                                                         jr
dec
                                                                          24h ; '$'
loc_1481
                                                         ld
                                                                                                                   ; space
                                                         jp
xor
                             loc_147F:
                                                                                                                   ; CODE XREF: print_bcd_value+9^j
                                                         ld
                                                                      b, 0
                              loc_1481:
                                                                                                                   ; CODE XREF: print_bcd_value+E<sup>†</sup>j
                                                        call
ld
                                                                      display_char
                                                                                                                     get score digit
                                                                      a, (de)
                                                        and
jr
dec
                                                                                                                   ; LS nibble
                                                                       nz, loc_1490
                                                                      a, 24h;
                                                         ld
                                                                                                                   ; space
148C F2
148F AF
1490
             92 14
                                                                           loc_1492
1490
1490 06 00
1492 1492 21492 CD 4F 14
1495 78
1496 C1
1497 1B
1498 10 D3
149A C9
149A 149A
                             loc_1490:
                                                                                                                  ; CODE XREF: print_bcd_value+1A<sup>†</sup>j
                                                         14
                                                                      b, 0
                              loc_1492:
                                                                                                                   ; CODE XREF: print_bcd_value+1F^j
                                                         call
                                                                      display_char
                                                        ld
pop
dec
                                                                                                                   ; next digit
                                                                      de
                                                         djnz
                                                                      print bcd value
                                                                                                                   ; done? no, loop
                             ret
; End of function print_bcd_value
149B
149B
149B
149B
                                                      SUBROUTINE
149B
149B 3A 03 80
149E 25
149F A7
14A0 3E 04
14A2 28 03
14A4 25
14A5 3E 18
14A7
14A7
14A7
14A7
14A7
14A8 6F
14AB 3E 03
14AA 6F
14AB 0F
14AB 6F
14BB 67
14BB 81
149B
149B
149E
                              sub_149B:
                                                                                                                   ; CODE XREF: display_char+2^p
                                                                     a, (8003h)
h
                                                        ld
dec
                                                         and
                                                         ld
                                                                      a, 4
z, loc_14A7
h
                                                         dec
                                                                      a, 18h
                                                         ld
                                                                                                                   ; CODE XREF: sub_149B+7<sup>†</sup>j
                             loc_14A7:
                                                                     a, 1
3Fh; '?'
1, a
a, 3
a, h
                                                         add
                                                        and
ld
ld
                                                        add
rrca
rrca
ld
```

h, a 0C0h; 'L'

1, a a, h 7

and or ld ld

and

add ld

14B8 81 14B9 67

```
14BA C9
                                          ret; End of function sub_149B
14BA
14BA
14BB
14BB
14BB
14BB F7
14BB
                                                                                                                                                                      ; CODE XREF: 0000:14EA|j; 0000:1532|j ...; save PC and return
                                          loc_14BB:
                                                                                                     30h
                                                                                  rst
                                                                                                     a, (802Ah)
a
ld
and
                                                                                                     nz
                                                                                  ret
                                                                                  ld
                                                                                                     hl.
                                                                                                    h1, 2
(7946h), h1
h1, 8002h
(7944h), h1
h1, 2014h
(7C44h), h1
h1, 150h
(7C46h), h1
                                                                                 1d
1d
1d
1d
1d
1d
1d
1d
1d
                                                                                                     hl, 2500h
                                                                                                     (7A46h), hl
hl, 0F00h
(7B46h), hl
                                                                                 rst
ld
and
                                                                                                     30h
a, (802Ah)
                                                                                                    nz, loc_14BB
a, (8028h)
a
                                                                                  jr
ld
                                                                                  and
                                                                                                     nz, loc_14F7
a, 1
                                                                                  jr
ld
                                                                                                     a, 1
(OAOOEh), a
                                          loc 14F7:
                                                                                                                                                                     ; CODE XREF: 0000:14F0|j
                                                                                                     sub_15FE
sub_15C1
sub_16B8
sub_1645
                                                                                  call
                                                                                 call
call
                                                                                 call
ret
xor
ld
                                                                                                      a
(0A00Eh), a
(0A022h), a
                                                                                 ld
ld
and
                                                                                                    (0AU22h), a
a, (8028h)
a
nz, loc_151C
hl, 15BAh
de, 8080h
bc, 7
                                                                                  jr
ld
                                                                                 ld
ld
ldir
                                          loc_151C:
                                                                                                                                                                     ; CODE XREF: 0000:150Ffj
                                                                                                     a, 1
(8044h), a
                                                                                 ld
ld
ld
ld
                                                                                                     hl, 0
(7D46h), hl
hl, 30C0h
(7C46h), hl
                                                                                 ld
rst
ld
and
                                                                                                     30h
                                                                                                     a, (802Ah)
                                                                                                     a
nz, loc_14BB
a, (7D46h)
                                                                                 jr
ld
inc
                                                                                  and
                                                                                                     (7D46h), a
nz, loc_155E
a, (7D47h)
                                                                                 ld
jr
ld
                                                                                  inc
                                                                                                     (7D47h), a
                                                                                 ld
cp
jr
                                                                                                     z, loc_1574
                                                                                 cp
call
cp
call
                                                                                                     z, sub_15A1
4
                                                                                                    z, sub_15B1
                                                                                  cp
call
                                                                                                     z, sub_15A1
a, 30h; '0'
(7C47h), a
155E 1 93 15
155E 2 93 15
1561 3A 47 7D
1564 CF
1565 3A 01 80
1568 E6 0C
156A 86
156B 32 47 79
156E 23
156F 7E
1570 32 46 7C
1573 C9
1574 3E 20
1576 32 46 7D
1578 3E 20
1576 32 46 7D
1579 AF
1579 AF
1579 AF
1579 AF
1579 AF
1578 32 46 7D
1578 32 46 7D
1578 32 46 7D
1578 32 1 46 7D
1581 35
1582 C0
1586 34 18 81
1586 34 1587 32 48 81
1586 34 1587 32 48 80
1588 36 01
158C AF
158B 32 44 80
1590 C3 BB 14
                                          loc_155E:
                                                                                                                                                                     ; CODE XREF: 0000:153Dfj
                                                                                                    hl, 1593h
a, (7D47h)
8
                                                                                 ld
ld
                                                                                 rst
ld
and
                                                                                                     a, (8001h)
OCh
                                                                                                     och
a, (hl)
(7947h), a
                                                                                  add
                                                                                 ld
inc
                                                                                                     a, (hl)
(7C46h), a
                                                                                  ld
                                                                                  ld
                                          loc_1574:
                                                                                                                                                                     ; CODE XREF: 0000:15481j
                                                                                 ld
ld
                                                                                                     a, 20h; ''
(7D46h), a
                                                                                  xor
ld
                                                                                                      a
(7946h), a
                                                                                                     30h
hl, 7D46h
(hl)
                                                                                  rst
ld
                                                                                 dec
ret
ld
inc
                                                                                                    (h1)
nz
hl, 818Bh
(h1)
hl, 802Ah
(h1), 1
                                                                                  ld
ld
                                                                                  xor
ld
                                                                                                     (8044h), a
loc_14BB
                                                                                  jр
1590 C3
1590
1593 00
1594 C0
1595 00
1596 C1
1597 03
                                                                                 .db 0; .db 0coh; L .db 0;
                                                                                           0;
0C1h; ⊥
3;
```

```
File: E:\Projects\pace\pacedev.net\sw\dev\platform\galaga\xevious\xev_main.lst 5/06/2011, 10:13:19 PM
1598 C4
1599 03
159A C8
159B 00
                                                                                                            .db 0C4h ; -
                                                                                                            .db 3;
.db 0C8h;
                                                                                                          .db 0;
.db 0C2h; T
.db 0;
.db 0C3h; |
.db 0C3h; |
159C C2
159D 00
159E C3
159F 03
159F 03
15A0 CC
15A1
15A1
15A1
15A1
15A1
15A1 21 47 7B
15A1
15A2 21 47 7A
15A8 35
15A9 F5
15A8 3E 2E
15AC 32 47 7C
15AF F1
15B0 C9
                                                                                                            .db 0cch ; |
                                                                                                           S U B R O U T I N E
                                                        sub_15A1:
                                                                                                                                                                                                                           ; CODE XREF: 0000:154C<sup>p</sup>; 0000:1556<sup>p</sup>
                                                                                                                                     hl, 7B47h
(hl)
hl, 7A47h
(hl)
                                                                                                            ld
                                                                                                            inc
ld
dec
                                                                                                           push
ld
ld
                                                                                                                                      af
a, 2Eh; '.'
(7C47h), a
                                                                                                                                      af
                                                                                                            pop
15B0 C9
15B0
15B0
15B1
                                                       ret; End of function sub_15A1
15B1
15B1
15B1
                                                         ; SUBSTRUCTION SUBROUTINE SUBSTRUCTION
                                                       sub 15B1:
                                                                                                                                                                                                                          ; CODE XREF: 0000:1551 p
 15B1
15B1
15B1 21 47 7B
15B4 35
15B5 21 47 7A
15B8 34
15B9 C9
15B9
15B9
                                                                                                                                     hl, 7B47h
(hl)
hl, 7A47h
(hl)
                                                                                                           ld
dec
ld
                                                                                                            inc
                                                       ret; End of function sub_15B1
 15B9
30h ; 0
40h ; @
                                                                                                            .db
                                                                                                            .db
                                                                                                                                0 ;
2 ;
                                                                                                            .db 2;
.db 0DFh; ■
                                                                                                             .db
                                                                                                                         10h ;
10h ;
                                                                                                            .db
                                                                                                          SUBROUTINE
                                                         sub_15C1:
                                                                                                                                                                                                                          ; CODE XREF: 0000:14FA1p
                                                                                                                                     hl, (7A46h)
a, (7AC6h)
8
                                                                                                            ld
ld
                                                                                                            rst
ld
and
                                                                                                                                      de, 1200h
                                                                                                                                     hl, de
hl, de
nc, loc_15D2
de, hl
                                                                                                            sbc
                                                                                                            add
                                                                                                            jr
ex
                                                        loc_15D2:
                                                                                                                                                                                                                          ; CODE XREF: sub_15C1+E^j
                                                                                                            ld
                                                                                                                                     de, 2600h
                                                                                                                                     a hl, de hl, de c, loc_15DC de, hl
                                                                                                            and
                                                                                                            sbc
add
jr
ex
15DB EB | 15DC | 15DC | 22 46 7A | 15DC | 24 46 7B | 15E2 3A 66 7B | 15E3 3A 7 | 15E4 ED | 15F4 ED | 15F7 3B 01 | 15F9 EB | 15F7 3B 01 | 15F9 EB | 15FA | 15FA | 22 46 7B | 15FB | 2
                                                       loc_15DC:
                                                                                                                                                                                                                          ; CODE XREF: sub_15C1+18<sup>†</sup>j
                                                                                                                                     (7A46h), hl
hl, (7B46h)
a, (7BC6h)
8
de, 200h
                                                                                                            ld
ld
ld
rst
ld
                                                                                                                                     a
hl, de
hl, de
nc, loc_15F0
de, hl
                                                                                                            and
sbc
add
jr
                                                                                                            еx
                                                        loc_15F0:
                                                                                                                                                                                                                          ; CODE XREF: sub_15C1+2C<sup>†</sup>j
                                                                                                            ld
                                                                                                                                      de, 1C00h
                                                                                                                                     a
hl, de
de
                                                                                                            and
sbc
add
                                                                                                                                     hl, de
c, loc_15FA
                                                                                                            jr
                                                                                                                                      de, hl
                                                       loc_15FA:
                                                                                                                                                                                                                          ; CODE XREF: sub_15C1+36 j
 15FA 22 46 7B
                                                                                                            ld
                                                                                                                                       (7B46h), hl
15FD C9
15FD
15FD
                                                        ret; End of function sub_15C1
 15FE
15FE
15FE
15FE
                                                                                                        SUBROUTINE
 15FE
                                                        sub_15FE:
                                                                                                                                                                                                                          ; CODE XREF: 0000:14F71p
15FE 15FE 3A 28 80 1601 A7 1602 20 1E 1604 3A 20 80 1607 A7 1608 21 19 80 1600 3A 21 80 1610 D7 1611 1611 7E
                                                                                                            ld
and
                                                                                                                                     a, (8028h)
                                                                                                                                     a
nz, loc_1622
a, (8020h)
a
h1, 8019h
z, loc_1611
a, (8021h)
10h
                                                                                                            jr
ld
                                                                                                            and
ld
                                                                                                            jr
ld
                                                       loc_1611:
                                                                                                                                                                                                                          ; CODE XREF: sub 15FE+D|j
1611 7E
1612 E6 0F
1614
                                                                                                                                      a, (hl)
0Fh
                                                                                                            ld
                                                                                                            and
                                                       loc_1614:
                                                                                                                                                                                                                          ; CODE XREF: sub_15FE+33|j
 1614
1614 21 33 16
1617 CF
                                                                                                                                      hl, 1633h
```

ret jr

185F 1860 1862 nz

loc_188C

```
1862
 1862
1862
1863
                                                                                                                                                                                ; CODE XREF: 0000:1908 bj; save PC and return
                                             loc_1862:
1862 F7
1863 3A 2A 80
1866 A7
1867 C0
1868 3A 44 80
186B A7
                                                                                                           a, (802Ah)
                                                                                       ld
                                                                                       and
ret
ld
                                                                                                                  (8044h)
                                                                                                            a,
a
1865 A7

186C C0

186D 3A 28 80

1870 A7

1871 20 E8

1873 3A 20 80

1876 A7

1877 3A 16 80

1876 3A 21 80

1877 3A 21 80

1877 A7

1880 3A 16 80

1883 28 04

1885 OF

1887 OF

1888 OF

1889 0F

1889 1889 0F
                                                                                       and
                                                                                       ret
ld
                                                                                                           nz
a, (8028h)
                                                                                       and
                                                                                                            nz, loc 185B
                                                                                       jr
ld
and
ld
                                                                                                           a, (8020h)
a, (8016h)
                                                                                                           z, loc_1889
a, (8021h)
a
a, (8016h)
                                                                                       jr
ld
                                                                                       and
ld
                                                                                       ir
                                                                                                            z, loc_1889
                                                                                       rrca
                                                                                       rrca
                                                                                       rrca
                                             loc_1889:
                                                                                                                                                                                ; CODE XREF: 0000:187A<sup>†</sup>j; 0000:1883<sup>†</sup>j
                                                                                       rrca
ret
rst
30h
                                             loc_188C:
                                                                                                                                                                                ; CODE XREF: 0000:1860<sup>†</sup>j
                                                                                                           a, (7940h)
1
                                                                                       ld
                                                                                       cp
ret
                                                                                                            nz
                                                                                                           nz
30h
hl, (7A46h)
(7A42h), hl
a, 0F4h; '¶'
a, h
h, a
(7A40h), hl
hl. (7B46h)
                                                                                       rst
ld
                                                                                       ld
ld
                                                                                      add
ld
ld
ld
ld
ld
                                                                                                           (7846h), hl
(7842h), hl
(7840h), hl
                                                                                       xor
                                                                                                            a
(7AC2h), a
(7D42h), a
                                                                                       ld
ld
ld
                                                                                                            (7D42h), a
(7D43h), a
                                                                                       inc
                                                                                                           a (0A00Ch), a hl, 8002h (7942h), hl (7940h), hl
                                                                                       ld
ld
ld
ld
ld
ld
ld
                                                                                                            a, 1Ch
(7C42h),
                                                                                                           hl, 2214h
(7C40h), hl
30h
hl, 7D42h
(hl)
                                                                                       rst
ld
                                                                                       inc
ld
and
                                                                                                           a, (hl)
                                                                                                            nz, loc_18E1
                                                                                       jr
inc
                                                                                                           a, (hl)
2
                                                                                       ld
                                                                                       cp
jr
                                                                                                            z, loc_18E1
                                                                                       inc
ld
dec
                                                                                                            a
(hl), a
                                                                                       dec
 18DF 34
18E0 24
18E1
                                                                                       inc
inc
                                                                                                            (hl)
                                                                                                                                                                                ; CODE XREF: 0000:18D3<sup>†</sup>j; 0000:18D9<sup>†</sup>j
 18E1
                                            loc_18E1:
 18E1 7E
 18E1
18E2 OF
                                                                                       ld
rrca
                                                                                                            a, (hl)
18E2 0F
18E3 0F
18E4 E6 03
18E6 C6 25
18E8 32 43 7C
18EE 35
18EF 35
18EF 35
18FF 35
18FF 24 42 7A
18F8 2A 40 7A
18F8 2A 40 7A
18FB 3A 14 80
18FB 3A 14 80
18FE ED 44
1900 CF
1901 22 40 7A
1904 CD 0B 19
1907 D8
1908 C3 62 18
                                                                                       rrca
and
add
ld
                                                                                                           3
a, 25h; '%'
(7C43h), a
h1, 7AC2h
(h1)
(h1)
                                                                                       ld
                                                                                       dec
dec
ld
                                                                                                           a, (hl)
hl, (7A42h)
                                                                                       ld
rst
ld
                                                                                                           8
(7A42h), hl
hl, (7A40h)
a, (8014h)
                                                                                       ld
                                                                                       ld
neg
                                                                                       rst
                                                                                                            (7A40h), hl
                                                                                       ld
                                                                                       call
ret
                                                                                                            sub_190B
                                                                                                            loc_1862
                                                                                       jр
 190B
 190B
190B
                                                                                       S U B
                                                                                                           ROUTINE
190B

190B

190B

190B

2A 40 7A

190E ED 5B 42 7A

1912 A7

1913 ED 52

1915 D8

1916 AF

1917 32 0C A0

191A 32 20 A0

191A 32 20 A0

191D CD EE 19

1920 AF

1921 32 42 79

1924 32 40 79

1927 C9
 190B
                                             sub_190B:
                                                                                                                                                                                ; CODE XREF: 0000:1904 p
                                                                                                           hl, (7A40h)
de, (7A42h)
                                                                                       ld
ld
                                                                                       and
sbc
ret
xor
                                                                                                           a
hl, de
                                                                                                            (0A00Ch), a
(0A020h), a
sub_19EE
                                                                                       ld
                                                                                       ld
call
                                                                                                           a (7942h), a (7940h), a
                                                                                       xor
                                                                                       ld
```

sub sub add ret

inc

ld

rra

1F 19BF

nc

a, (hl)

h a, (hl)

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Page: 37
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1ABA 1ABB 1ABC 1ABD

DD 1A 73 1ABE 1ABF

Õ = Ç 2 ß ~

1004 EB
1005 E5
1006 77
1007 2C
1008 36
10108 36
10108 16
1008 16
1008 EB
100C E1
1000 01
1010 E0
1011 B0
1012 D1
1013 14
1014 D5
1015 21
1016 51
1017 10
1018 01
1019 08
1010 E0
1011 B0
1012 E0
1013 14
1014 D5
1015 21
1016 51
1017 10
1018 01
1018 01
1018 01
1019 08
1010 E0
1010 ÙÕW,6Ι,Ùβ db 055h;
db 77h;
db 26h;
db 77h;
db 26h;
db 76h;
db 26h;
db 0E1h;
db 16;
db 0E1h;
db 0E1h; Ý 1 ! Q Ý WHO ÚN F , < ÇÜSW , Q±O 44 , YÍÇSW , Q±O 55 , P , Q , P , P | F × × × [Ç Ç Ç ¦ Ù 6 : **™**² 6 6 o -- s У | | Ù ~

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db 16h;
db 79h;
db 05h;
db 05h;
db 05h;
db 05h;
db 05h;
db 07h;
db 75h;
db 07h;
db 16h;
db 16h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          У
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.db 80h; .db 0E6h;

5/06/2011,

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0AFh ; 77h ;

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24B9 7E
24B8 7E
24B8 33
24BC CA
24BB 15
24BE 26
24C2 3B
24C2 3C
24C2 3C
24C2 3C
24C3 47
24C4 7B
24C5 96
24C6 D6
24C7 04
24C8 CB
24C8 C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7Eh ;
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db 03;
db 0CAh;
db 1Fh;
db 31h;
db 26h;
db 27h;
db 26h;
db 78h;
db 26h;
db 27h;
db 26h;
db 0Ch;
db 38h;
db 16h;
db 26h;
db 25h;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ш
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Û ~ ■
1 & } = q2 ,4 ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                μ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                % ~ - å ₩ % 5 5 T
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% 6 % 6

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```
25A1 CA
25A2 1F
25A3 1A
25A4 26
25A3 31
25A4 26
25A6 3D
25A6 25
25A7 28
25A8 20
25A8 20
25A8 20
25A8 20
25A8 20
25A8 30
25A8 77
25AF 20
25A8 30
25A8 60
25A8 77
25AF 20
25A8 30
25A8 60
25A8 77
25A8 91
25B8 26
25B1 7A
25B2 25B2 2B8
25B3 CD
25B8 30
25B8 63
25B8 79
25B8 26
25B7 79
25B8 26
25B7 79
25B8 26
25B7 26
25C2 1A
25C2 1A
25C3 0B
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32CB CB D4
32CC 36 06
32C2 41
32C4
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32C4 CD A5 32
32C7 EB
32CB CB FB
32CA 21 B3 3D
32CD 79
32CB CB BB
32DA 26 7F
32D6 36 07
32D1 EB
32D2 CB BD
32D2 CB BD
32D4 26 7F
32D6 36 07
32D8 C9
32D8 C9
32D8 C9
32D8 C9
32D8 C9
32D8 C1
32D9 16
32DA 7A
32DB DD
32DD 1C
32DB TA
32DB CB
32DD 1C
32DB TA
32DB CB
32DD 1C
32DB TA
32DB
                                                                                                                                                                                                                                      call
set
ld
                                                                                                                                                                                                                                                                                              sub_32A5
2, h
(hl), 6
b, c
                                                                                                                                                                                                                                        ld
                                                                                                                        loc_32C4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:329E1i
                                                                                                                                                                                                                                                                                            sub_32A5
de, hl
7, e
hl, 3DB3h
a, c
sub_3383
de, hl
7, 1
h, 7Fh; ''
(hl), 7
                                                                                                                                                                                                                                      call
                                                                                                                                                                                                                                      ex
set
                                                                                                                                                                                                                                      ld
ld
call
ex
                                                                                                                                                                                                                                      res
ld
ld
                                                                                                                                                                                                                                        ret
                                                                                                                                                                                                                                     .db 16h;
.db 7Ah;
.db 0DDh;
.db 5Dh;
.db 5Dh;
.db 1Ch;
.db 1Ah;
.db 4Fh;
.db 3Ah;
.db 47h;
.db 7Ah;
.db 47h;
.db 97h;
.db 98h;
.db 91h;
.db 67h;
.db 0Cb;
.db 0Cb;
.db 0Eb;
.db 0Eh;
.db 0D6h;
.db 0D6h;
.db 0D6h;
                                                                                                                                                                                                                                                                        16h ;
7Ah ; z
                                                                                                                                                                                                                                                                                                                  ]
                                                                                                                                                                                                                                                                                                                0
:
G
                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                O
:
G
{
                                                                                                                                                                                                                                                                                                                  æ
                                                                                                                                                                                                                                                                                                                  Í
                                                                                                                                                                                                                                                                      20h ;
0Fh ;
                                                                                                                                                                                                                                        .db
```

32F3 OF 32F4 OF .db

SUBROUTINE

3365 3365

```
33CA 23

33CB 1C

33CC 1C

33CD 10 F9

33CF C9

33DD 3A 2A 80

33DD 3A 2A 80

33D3 A7

33D4 C0

33D5 3A 2D 80

33D5 3A 2D 80

33D8 A7

33D9 C8

33DA 21 20 7F

33DD 47

33DE
                                                                                      ret
ld
                                                                                                          hl, 7F20h
b, a
                                                                                      ld
33DE

33DE

33DE

33E0

33E1

2C

33E2

10

33E4

C9

33E5

33E5

33E5
                                            loc 33DE:
                                                                                                                                                                              ; CODE XREF: 0000:33E2-1
            36 01
2C
2C
10 FA
                                                                                      ld
                                                                                                           (hl), 1
                                                                                      inc
                                                                                                           loc_33DE
                                                                                      dinz
                                            loc_33E5:
                                                                                                                                                                               ; CODE XREF: 0000:33FA-j
 33E5
33E5 F7
33E5
                                                                                                                                                                              ; 0000:3409\j
; save PC and return
```

de, 34A7h (ix+0), e

349E 11 A7 34 34A1 DD 73 00

7

3811 OF 3812 E6 O7

(7907h), a a, 94h; 'ö' (7C06h), a (7B1Eh) a, 5 a, h

ld

ld add

39B1 3E 39B3 84

3A8F 11 99 3A 3A92 DD 73 00 3A95 DD 72 01

de, 3A99h (ix+0), e (ix+1), d

ld

```
3A98 C1
3A99 16 7D
3A9B DD 5D
                                                                      d, 7Dh; '}'
e, xl
de, hl
                                                         ld
ld
3A9D EB
                                                         ex
3A9E 35
3A9F C0
3AA0 C5
3AA1 CD 7C 3B
                                                         dec
                                                                       (hl)
                                                                      nz
                                                         ret
                                                         push
                                                                       sub 3B7C
                                                         call
3AA1 CD /C
3AA4 C1
3AA5
3AA5
3AA5 16 79
3AA7 DD 5D
3AA9 AF
3AAA 12
                             loc_3AA5:
                                                                                                                   ; CODE XREF: 0000:3A4A<sup>†</sup>j
                                                                       d, 79h ; 'y'
                                                         ld
                                                         ld
xor
ld
                                                                       e, xl
                                                                       a (de), a d, 7Fh; ''
3AAB 16 7F
                                                         ld
                                                                       (de), a loc_3079
3AAD 12
                                                         14
3AAE C3 79 30
3AB1
                                                         jр
3AB1
3AB1
3AB1 CD 09 3B
3AB4 18 D9
                             loc_3AB1:
                                                                                                                   ; CODE XREF: 0000:3A86†j
                                                                      print_dead_copy_etc
loc_3A8F
                                                         call
                                                         jr
3AB4
3AB6 5A
3AB7 5C
                                                         . db
                                                                  5Ah ; Z
3AB7 5C
3AB8 50
                                                         .db
                                                                  5Ch ; \ 50h ; P
                                                         .db
                                                         .db
.db
3AB9
        48
                                                                 48h ; H
3ABA 02
3ABB 12
                                                                 12h ;
3ABC
        10
                                                         .db
                                                                 10h ;
                                                         .db
3ABD 04
3ABE 48
3ABF 2E
3ACO 14
                                                                 48h ;
                                                         .db
                                                                 2Eh ;
                                                         .db
                                                                 14h;
3AC1 2C
3AC2 18
3AC3 30
3AC4 48
                                                         .db
                                                                           0
                                                         .db
                                                                  30h;
                                                         .db
                                                                 48h ; H
3AC5
3AC6
3AC7
       2A
3A
                                                         .db
                                                                 2Ah ;
3Ah ;
        1A
                                                         .db
                                                                  1Ah;
3AC8 A0
3AC9
                                                          .db 0A0h ; á
                             ; SUBROUTINE
3AC9
3AC9
3AC9
3AC9
3AC9
3AC9
3AC9
3AC9
21 E1 3A
3ACC CD 48 3B
3ACF 21 21 19
3AD2 06 07
3AD4 0E B0
                            print_evezoo_msg:
    ld
                                                                                                                      CODE XREF: 0000:3A8C<sup>p</sup> "original program by evezoo"
                                                                       hl, 3AE1h
                                                                      decode_and_print_string_16
hl, 1921h
b, 7
c, 0B0h; '\'\'
                                                         call
                                                         ld
ld
                                                         ld
3AD6 3E 1A
3AD8 CD 5D 14
3ADB 21 F1 3A
3ADE C3 62 3B
                                                         ld
                                                                       a, 1Ah
                                                         call
ld
                                                                       display_char_B_times
hl, 3AF1h
                                                                                                                   ; "program by evezoo"
                             ld hl, 3AFIh
jp decode_and_print_string_24
; End of function print_evezoo_msg
3ADE
3ADE
3ADE
3AE1 DO CF CE CD+
3AE1 CC CB CA DB+
3AF1 DB DB DB DB+
3AF1 DB BA B8 BB+
                                                         .db 0D0h, 0CFh, 0CEh, 0CDh, 0CCh, 0CBh, 0CAh, 0DBh, 0E7h; "??? ORIGINAL"
                                                         .db OB4h, OBDh, OFFh, OEDh, OEBh, OF5h, OEAh
.db ODBh, ODBh, ODBh, ODBh, ODBh, OBAh, OBBh, OC3h; "program by EVEZOO"
.db OB8h, OC9h, OBDh, ODBh, OC8h, OB1h, ODBh, OF1h, OEOh
3AF1 C3 B8 C9 BD+
                                                         .db OF1h, ODCh, OE7h, OE7h, ODBh, ODBh
3B09
3B09
                                         SUBROUTINE ...
3B09
3B09
3B09
3B09 21 20 3B
3B09 21 20 3B
3B0C CD 48 3B
3B0F 21 21 19
3B12 06 09
3B14 0E B0
                                                                                                                   ; CODE XREF: 0000:3AB1<sup>†</sup>p; "DEAD COPY MAKING"
                             print_dead_copy_etc:
                                                                       hl, 3B20h
                                                         ld
call
                                                                      decode_and_print_string_16
hl, 1921h
b, 9
c, 0B0h; '\'\'
                                                         ld
                                                                                                                   ; screen position
                                                         ld
                                                                      display_char_B_times
hl, 3B30h ; "copy under NAMCO program "
decode_and_print_string_24
3B16 3E 1B
3B18 CD 5D 14
3B1B 21 30 3B
3B1E 18 42
                                                         ld
                                                         call
ld
                             ; End of function print_dead_copy_etc
3B1E
3B1E

3B1E

3B1E

3B20 F2 F1 F5 F2+

3B20 DB F3 E7 E6+

3B30 C7 BB BA B1+

3B30 DB B5 BC C6+

3B30 C5 B8 DB E8+
                                                        .db 0F2h, 0F1h, 0F5h, 0F2h, 0DBh, 0F3h, 0E7h, 0E6h, 0DDh; "DEAD COPY MAKING"
.db 0DBh, 0E9h, 0F5h, 0EBh, 0EBh, 0E8h, 0EFh
.db 0C7h, 0BBh, 0BAh, 0BH, 0DBh, 0B5h, 0Bch, 0C6h, 0C5h; "copy under NAMCO program"
.db 0B8h, 0DBh, 0E8h, 0F5h, 0E9h, 0F3h, 0E7h, 0DBh, 0BAh
                                                         .db 0B8h, 0BBh, 0C3h, 0B8h, 0C9h, 0BDh
3B48
3B48
3B48
                                   SUBROUTINE
3B48
                                                                                                                   ; CODE XREF: print_evezoo_msg+3\(^p\)
; print_dead_copy_etc+3\(^p\)
; buffer
3B48
                             decode_and_print_string_16:
 3B48 11 80 84
                                                                      de, 8480h
b, 16
3B48
3B4B 06 10
                                                                                                                   ; string length
                                                         ld
3B4D
3B4D
                             loc_3B4D:
                                                                                                                   ; CODE XREF: decode_and_print_string_16+A|j
                                                                      a, (hl)
3B4D 7E
                                                         ld
                                                                                                                   ; get string char
; decode
                                                         cpl
ld
inc
3B4E 2F
3B4F 12
3B50 23
3B51 13
                                                                                                                   ; store in buffer
                                                                                                                   ; next char
; done? no, loop
; screen position
; buffer
                                                         inc
                                                                       de
3B51 13
3B52 10 F9
3B54 21 21 19
3B57 11 80 84
3B5A 06 10
3B5C 0E C0
3B5E CD 1F 14
3B61 C9
3B61 C9
                                                                      de loc_3B4D hl, 1921h de, 8480h b, 16 c, 0C0h; 'L' print_string
                                                         djnz
ld
ld
                                                         ld
                                                                                                                   ; length
                                                         1 d
                                                         call
                                                         ret
                             ; End of function decode_and_print_string_16
3B61
3B61
3B62
3B62
                                                                                                                   ; CODE XREF: print_evezoo_msg+15↑j; print_dead_copy_etc+15↑j; buffer
                             decode_and_print_string_24:
3B62
3B62 11 80 84
3B62
```

de, 8480h

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V

56h ; 56h; 56h;

.db

3C17

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3D7F 3B 3D80 18

3Bh ; 18h ;

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3FFF 3FFF 3FFF

.end