

```

0000 ;
0000 ;
0000 ; This file is generated by The Interactive Disassembler (IDA)
0000 ; Licensed to: Unknown User ;-
0000 ; Copyright (c) 1999 by DataRescue sa/nv, <ida@datarescue.com>
0000 ;
0000 ;
0000 ;
0000 ; File Name : D:\markm\pace\pacedev.net\sw\dev\platform\galaga\xevious\sub2.bin
0000 ; Format : Binary File
0000 ; Base Address: 0000h Range: 0000h - 1000h Loaded length: 1000h
0000 ;
0000 ; Processor: z80
0000 ; Target assembler: Table Driven Assembler (TASM) by Speech Technology Inc.
0000 ;
0000 ;
0000 ; Segment type: Pure code
0000 ; segment 'seg000'
0000
0000 RESET:
0000 31 00 A3 ld sp, 0A300h
0003 C3 7F 00 jp START
0003 ;
0006 00 00 .db 0, 0
0008 ;
0008 ; SUBROUTINE
0008 ;
0008 HL_plus_equals_2A: ; CODE XREF: sub_0_248+3D|p
0008 87 add a, a ; sub_0_28B+74|p ...
0009
0009 loc_0_9:
0009 30 05 jr nc, HL_plus_equals_A
000B 24 inc h
000C 18 02 jr HL_plus_equals_A
000C ; End of function HL_plus_equals_2A
000C
000C ;
000E 00 00 .db 0, 0
0010 ;
0010 ; SUBROUTINE
0010 ;
0010 HL_plus_equals_A: ; CODE XREF: HL_plus_equals_2A+1|j
0010 85 ; HL_plus_equals_2A+4|j ...
0010 add a, 1
0011 6F ld l, a
0012 D0 ret nc
0013 24 inc h
0014 C9 ret
0014 ; End of function HL_plus_equals_A
0014 ;
0015 00 00 00 .db 0, 0, 0
0018 ;
0018 ; SUBROUTINE
0018 ;
0018 memset_HL_A_B: ; CODE XREF: memset_HL_A_B+2|j
0018 77 ; sub_0_214+27|p ...
0018 ld (hl), a ; store A
0019 23 inc hl ; next address
001A 10 FC djnz memset_HL_A_B
001C C9 ret
001C ; End of function memset_HL_A_B
001C ;
001D 00 00 00 .db 0, 0, 0
0020 ;
0020 ; SUBROUTINE
0020 ;
0020 get_volume_channel_A: ; CODE XREF: sub_0_307+24|p
0020 3A 98 A0 ; sub_0_307+84|p
0020 ld a, (channel)
0023 A7 and a
0024 28 0B jr z, loc_0_31
0026 3D dec a
0027 28 04 jr z, loc_0_2D
0029 21 90 A0 ld hl, R_Ch2_vol
002C C9 ret
002D ;
002D loc_0_2D: ; CODE XREF: get_volume_channel_A+7|j
002D 21 8B A0 ld hl, R_ch1_vol
0030 C9 ret
0031 ;
0031 loc_0_31: ; CODE XREF: get_volume_channel_A+4|j
0031 21 86 A0 ld hl, R_ch0_vol
0034 C9 ret
0034 ; End of function get_volume_channel_A
0034 ;
0035 00 00 00 00+ .db 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0035 00 00 00 00+ .db 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0035 00 00 00 00+ .db 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0066 ;
0066 NMI:
0066 F5 push af
0067 3A 80 A0 ld a, (R_busy_in_NMI)
006A A7 and a ; busy?
006B 28 03 jr z, loc_0_70 ; no, continue
006D F1 pop af
006E ED 45 retn
0070 ;
0070 loc_0_70: ; CODE XREF: 0000:006B|j
0070 3E 01 ld a, 1 ; flag busy in NMI
0072 32 80 A0 ld (R_busy_in_NMI), a
0075 32 22 68 ld (6822h), a ; sub2 IRQ disable

```

```

0078 AF          xor     a          ;
0079 32 22 68      ld      (6822h), a      ; sub2 IRQ enable
007C C3 9A 00      jp      process_NMI
007F
007F
007F START:          ld      a, 1          ; CODE XREF: 0000:0003↑j
007F 3E 01          ld      (6822h), a      ; sub2 IRQ disable
0081 32 22 68      call    calc_rom_checksum
0084 CD 53 0A      ld      hl, 0A000h
0087 21 00 A0      ld      (hl), 0
008A 36 00          ld      de, 0A001h
008C 11 01 A0      ld      bc, 0FFh          ; clear A000-A0FF
008F 01 FF 00      ldir
0092 ED B0          xor     a
0094 AF          ld      (6822h), a      ; sub2 IRQ enable
0095 32 22 68
0098
0098 loc_0_98:        jr      loc_0_98      ; CODE XREF: 0000:0098↑j
0098 18 FE          ; loop until interrupted
009A
009A
009A process_NMI:      ld      hl, R_ch0_freq_hi      ; CODE XREF: 0000:007C↑j
009A 21 81 A0      ld      (hl), 0
009D 36 00          ld      de, R_ch0_freq
009F 11 82 A0      ld      bc, 0Fh          ; clear all channel freq,vol
00A2 01 0F 00      ldir
00A5 ED B0          ld      a, (unk_0_A094)
00A7 3A 94 A0      and     a
00AA A7          jr      z, loc_0_B8
00AB 28 0B          ld      hl, 0A000h
00AD 21 00 A0      add     a, (hl)
00B0 86          ld      (hl), a
00B1 77          xor     a
00B2 AF          ld      (unk_0_A094), a
00B3 32 94 A0      jr      loc_0_CE
00B6 18 16
00B8
00B8
00B8 loc_0_B8:          ld      a, (8028h)          ; CODE XREF: 0000:00AB↑j
00B8 3A 28 80      and     a
00BB A7          jr      z, loc_0_CE
00BC 28 10          ld      hl, 0A001h
00BE 21 01 A0      ld      (hl), 0
00C1 36 00          ld      de, 0A002h
00C3 11 02 A0      ld      bc, 26h ; '&'
00C6 01 26 00      ldir          ; clear A001-A027
00C9 ED B0          jp      check_sound_0
00CB C3 D2 01
00CE
00CE
00CE loc_0_CE:          ; CODE XREF: 0000:00B6↑j
00CE 3A 02 A0      ld      a, (unk_0_A002) ; 0000:00BC↑j
00CE          and     a
00D1 A7          jr      z, loc_0_DF
00D2 28 0B          ld      hl, sound_cmd
00D4 21 95 A0      ld      (hl), 2
00D7 36 02          call   sub_0_28B
00D9 CD 8B 02      jp      check_sound_0
00DC C3 D2 01
00DF
00DF
00DF loc_0_DF:          ld      a, (unk_0_A003)      ; CODE XREF: 0000:00D2↑j
00DF 3A 03 A0      and     a
00E2 A7          jr      z, loc_0_F0
00E3 28 0B          ld      hl, sound_cmd
00E5 21 95 A0      ld      (hl), 3
00E8 36 03          call   sub_0_28B
00EA CD 8B 02      jp      check_sound_0
00ED C3 D2 01
00F0
00F0
00F0 loc_0_F0:          ld      a, (unk_0_A004)      ; CODE XREF: 0000:00E3↑j
00F0 3A 04 A0      and     a          ; extra salvalou sound?
00F3 A7          jr      z, loc_0_101      ; no, skip
00F4 28 0B          ld      hl, sound_cmd
00F6 21 95 A0      ld      (hl), 4
00F9 36 04          call   sub_0_28B
00FB CD 8B 02      jp      check_sound_0
00FE C3 D2 01
0101
0101
0101 loc_0_101:         ld      a, (unk_0_A00E)      ; CODE XREF: 0000:00F4↑j
0101 3A 0E A0      and     a
0104 A7          jr      z, loc_0_10F
0105 28 0B          ld      hl, sound_cmd
0107 21 95 A0      ld      (hl), 0Eh
010A 36 0E          call   sub_0_28B
010C CD 8B 02
010F
010F
010F loc_0_10F:         ld      a, (unk_0_A00D)      ; CODE XREF: 0000:0105↑j
010F 3A 0D A0      and     a
0112 A7          jr      z, loc_0_11D
0113 28 0B          ld      hl, sound_cmd
0115 21 95 A0      ld      (hl), 0Dh
0118 36 0D          call   sub_0_28B
011A CD 8B 02
011D
011D
011D loc_0_11D:         ld      hl, sound_cmd      ; CODE XREF: 0000:0113↑j
011D 21 95 A0      ld      (hl), 5
0120 36 05          ld      a, (unk_0_A005)
0122 3A 05 A0      and     a
0125 A7          jr      z, loc_0_131
0126 28 0B          xor     a
0128 AF          ld      (unk_0_A005), a
0129 32 05 A0      call   sub_0_214
012C CD 14 02      jr      loc_0_13B
012F 18 0A
0131
0131
0131 loc_0_131:         ld      a, (unk_0_A019)      ; CODE XREF: 0000:0126↑j
0131 3A 19 A0      and     a
0134 A7          jr      z, loc_0_13B
0135 CA 3B 01      call   sub_0_248
0138 CD 48 02
013B
013B loc_0_13B:          ; CODE XREF: 0000:012F↑j

```

```

013B 3A 06 A0          ; 0000:0135↑j
013B          ld      a, (unk_0_A006)
013E A7          and      a
013F 28 0A        jr      z, loc_0_14B
0141 21 95 A0      ld      hl, sound_cmd
0144 36 06        ld      (hl), 6
0146 CD 8B 02      call    sub_0_28B
0149 18 2E        jr      loc_0_179
014B          ;
014B          loc_0_14B:          ; CODE XREF: 0000:013F↑j
014B 3A 07 A0      ld      a, (unk_0_A007)
014E A7          and      a
014F 28 0A        jr      z, loc_0_15B
0151 21 95 A0      ld      hl, sound_cmd
0154 36 07        ld      (hl), 7
0156 CD 8B 02      call    sub_0_28B
0159 18 1E        jr      loc_0_179
015B          ;
015B          loc_0_15B:          ; CODE XREF: 0000:014F↑j
015B 3A 08 A0      ld      a, (unk_0_A008)
015E A7          and      a
015F 28 0A        jr      z, loc_0_16B
0161 21 95 A0      ld      hl, sound_cmd
0164 36 08        ld      (hl), 8
0166 CD 8B 02      call    sub_0_28B
0169 18 0E        jr      loc_0_179
016B          ;
016B          loc_0_16B:          ; CODE XREF: 0000:015F↑j
016B 3A 09 A0      ld      a, (unk_0_A009)
016E A7          and      a
016F 28 08        jr      z, loc_0_179
0171 21 95 A0      ld      hl, sound_cmd
0174 36 09        ld      (hl), 9
0176 CD 8B 02      call    sub_0_28B
0179          loc_0_179:          ; CODE XREF: 0000:0149↑j
                                ; 0000:0159↑j ...
0179          ld      hl, sound_cmd
017C 36 0A        ld      (hl), 0Ah
017E 3A 0A A0      ld      a, (unk_0_A00A)
0181 A7          and      a
0182 28 09        jr      z, loc_0_18D
0184 AF          xor      a
0185 32 0A A0      ld      (unk_0_A00A), a
0188 CD 14 02      call    sub_0_214
018B 18 28        jr      loc_0_1B5
018D          ;
018D          loc_0_18D:          ; CODE XREF: 0000:0182↑j
018D 3A 1E A0      ld      a, (unk_0_A01E)
0190 A7          and      a
0191 28 05        jr      z, loc_0_198
0193 CD 48 02      call    sub_0_248
0196 18 1D        jr      loc_0_1B5
0198          ;
0198          loc_0_198:          ; CODE XREF: 0000:0191↑j
0198          ld      hl, sound_cmd
019B 36 0B        ld      (hl), 0Bh
019D 3A 0B A0      ld      a, (unk_0_A00B)
01A0 A7          and      a
01A1 28 09        jr      z, loc_0_1AC
01A3 AF          xor      a
01A4 32 0B A0      ld      (unk_0_A00B), a
01A7 CD 14 02      call    sub_0_214
01AA 18 26        jr      check_sound_0
01AC          ;
01AC          loc_0_1AC:          ; CODE XREF: 0000:01A1↑j
01AC 3A 1F A0      ld      a, (unk_0_A01F)
01AF A7          and      a
01B0 28 03        jr      z, loc_0_1B5
01B2 CD 48 02      call    sub_0_248
01B5          loc_0_1B5:          ; CODE XREF: 0000:018B↑j
                                ; 0000:0196↑j ...
01B5          ld      hl, sound_cmd
01B8 36 0C        ld      (hl), 0Ch
01BA 3A 0C A0      ld      a, (unk_0_A00C)
01BD A7          and      a
01BE 28 09        jr      z, loc_0_1C9
01C0 AF          xor      a
01C1 32 0C A0      ld      (unk_0_A00C), a
01C4 CD 14 02      call    sub_0_214
01C7 18 09        jr      check_sound_0
01C9          ;
01C9          loc_0_1C9:          ; CODE XREF: 0000:01BE↑j
01C9 3A 20 A0      ld      a, (unk_0_A020)
01CC A7          and      a
01CD 28 03        jr      z, check_sound_0
01CF CD 48 02      call    sub_0_248
01D2          check_sound_0:          ; CODE XREF: 0000:00CB↑j
                                ; 0000:00DC↑j ...
01D2 3A 00 A0      ld      a, (ram_a000) ; sound 0 (has priority?)
01D5 A7          and      a
01D6 28 0A        jr      z, check_sound_1
01D8 21 95 A0      ld      hl, sound_cmd
01DB 36 00        ld      (hl), 0
01DD CD 8B 02      call    sub_0_28B
01E0 18 0E        jr      write_sound_chip
01E2          ;
01E2          check_sound_1:          ; CODE XREF: 0000:01D6↑j
                                ; sound 1 (has priority?)
01E2 3A 01 A0      ld      a, (unk_0_A001)
01E5 A7          and      a
01E6 28 08        jr      z, write_sound_chip
01E8 21 95 A0      ld      hl, sound_cmd
01EB 36 01        ld      (hl), 1
01ED CD 8B 02      call    sub_0_28B
01F0          write_sound_chip:          ; CODE XREF: 0000:01E0↑j

```

```

01F0 21 81 A0                ; 0000:01E6|j
01F0                ld      hl, R_ch0_freq_hl
01F3 11 10 68                ld      de, ch0_freq_hl ; frequency/volume bytes
01F6 01 10 00                ld      bc, 10h        ; length
01F9 ED B0                ldir     ; set sound registers from RAM
01FB 3A 91 A0                ld      a, (R_ch_0_wavrfm)
01FE 32 05 68                ld      (ch_0_waveform), a
0201 3A 92 A0                ld      a, (R_ch_1_waveform)
0204 32 0A 68                ld      (ch_1_waveform), a
0207 3A 93 A0                ld      a, (R_ch_2_waveform)
020A 32 0F 68                ld      (ch_2_waveform), a
020D AF                    xor      a            ; clear busy flag
020E 32 80 A0                ld      (R_busy_in_NMI), a
0211 F1                    pop      af
0212 ED 45                retn
0214
0214                ; ██████████ S U B R O U T I N E ██████████
0214
0214                sub_0_214:                ; CODE XREF: 0000:012C|p
0214 21 14 A0                ; 0000:0188|p ...
0214                ld      hl, 0A014h
0217 3A 95 A0                ld      a, (sound_cmd)
021A D7                    rst      10h        ; HL += A
021B 34                    inc      (hl)
021C 21 95 A0                ld      hl, sound_cmd
021F 7E                    ld      a, (hl)
0220 87                    add      a, a            ; A = 2A
0221 86                    add      a, (hl)        ; A = 3A
0222 21 C0 04                ld      hl, 4C0h        ; table of triplets
0225 D7                    rst      10h        ; HL += A
0226 11 96 A0                ld      de, 0A096h
0229 01 03 00                ld      bc, 3
022C ED B0                ldir
022E 21 97 A0                ld      hl, 0A097h
0231 46                    ld      b, (hl)
0232 48                    ld      c, b
0233 21 54 A0                ld      hl, 0A054h
0236 3A 96 A0                ld      a, (unk_0_A096)
0239 D7                    rst      10h        ; HL += A
023A AF                    xor      a
023B DF                    rst      18h        ; memset(HL,A,B)
023C 41                    ld      b, c
023D 21 28 A0                ld      hl, 0A028h
0240 3A 96 A0                ld      a, (unk_0_A096)
0243 D7                    rst      10h        ; HL += A
0244 AF                    xor      a
0245 DF                    rst      18h        ; memset(HL,A,B)
0246 18 12                jr      loc_0_25A
0246                ; End of function sub_0_214
0246
0248                ; ██████████ S U B R O U T I N E ██████████
0248
0248                sub_0_248:                ; CODE XREF: 0000:0138|p
0248 21 95 A0                ; 0000:0193|p ...
0248                ld      hl, sound_cmd
024B 7E                    ld      a, (hl)
024C 87                    add      a, a            ; A = 2A
024D 86                    add      a, (hl)        ; A = 3A
024E 21 C0 04                ld      hl, 4C0h        ; table of triplets
0251 D7                    rst      10h        ; HL += A
0252 11 96 A0                ld      de, 0A096h
0255 01 03 00                ld      bc, 3
0258 ED B0                ldir
025A
025A                loc_0_25A:                ; CODE XREF: sub_0_214+32|j
025A CD 07 03                ; sub_0_248+23|j
025A                call     sub_0_307
025D 21 97 A0                ld      hl, 0A097h
0260 35                    dec      (hl)
0261 28 0A                jr      z, loc_0_26D
0263 21 96 A0                ld      hl, 0A096h
0266 34                    inc      (hl)
0267 21 98 A0                ld      hl, 0A098h
026A 34                    inc      (hl)
026B 18 ED                jr      loc_0_25A
026D
026D                loc_0_26D:                ; CODE XREF: sub_0_248+19|j
026D 3A 99 A0                ld      a, (unk_0_A099)
0270 A7                    and      a
0271 C8                    ret      z
0272 AF                    xor      a
0273 32 99 A0                ld      (unk_0_A099), a
0276 21 14 A0                ld      hl, 0A014h
0279 3A 95 A0                ld      a, (sound_cmd)
027C D7                    rst      10h        ; HL += A
027D 36 00                ld      (hl), 0
027F 21 33 04                ld      hl, 433h        ; jump table
0282 3A 95 A0                ld      a, (sound_cmd)
0285 CF                    rst      8          ; HL += 2A (get table entry)
0286 5E                    ld      e, (hl)
0287 23                    inc      hl
0288 56                    ld      d, (hl)        ; get jump address
0289 EB                    ex      de, hl
028A E9                    jp      (hl)        ; go
028A                ; End of function sub_0_248
028A
028B                ; ██████████ S U B R O U T I N E ██████████
028B
028B                sub_0_28B:                ; CODE XREF: 0000:00D9|p
028B 21 95 A0                ; 0000:00EA|p ...
028B                ld      hl, sound_cmd
028E 7E                    ld      a, (hl)
028F 87                    add      a, a            ; A = 2A
0290 86                    add      a, (hl)        ; A = 3A
0291 21 C0 04                ld      hl, 4C0h        ; table of triplets
0294 D7                    rst      10h        ; HL += A
0295 11 96 A0                ld      de, 0A096h
0298 01 03 00                ld      bc, 3            ; length
029B ED B0                ldir     ; copy triplet to RAM
029D 21 14 A0                ld      hl, 0A014h

```

```

02A0 3A 95 A0      ld      a, (sound_cmd)
02A3 D7           rst      10h          ; HL += A
02A4 7E           ld      a, (hl)
02A5 A7           and      a
02A6 20 19        jr      nz, loc_0_2C1
02A8 34           inc      (hl)
02A9 21 97 A0     ld      hl, 0A097h
02AC 46           ld      b, (hl)          ; number of bytes to set
02AD 48           ld      c, b
02AE 21 54 A0     ld      hl, 0A054h
02B1 3A 96 A0     ld      a, (unk_0_A096)
02B4 D7           rst      10h          ; HL += A
02B5 AF           xor      a
02B6 DF           rst      18h          ; memset (HL,A,B)
02B7 41           ld      b, c
02B8 21 28 A0     ld      hl, 0A028h
02BB 3A 96 A0     ld      a, (unk_0_A096)
02BE D7           rst      10h          ; HL += A
02BF AF           xor      a
02C0 DF           rst      18h          ; memset (HL,A,B)
02C1
02C1             loc_0_2C1:                ; CODE XREF: sub_0_28B+1B↑j
02C1 CD 07 03     ; sub_0_28B+47↑j
02C1             call     sub_0_307
02C4 21 97 A0     ld      hl, 0A097h
02C7 35           dec      (hl)
02C8 28 0A        jr      z, loc_0_2D4
02CA 21 96 A0     ld      hl, 0A096h
02CD 34           inc      (hl)
02CE 21 98 A0     ld      hl, 0A098h
02D1 34           inc      (hl)
02D2 18 ED        jr      loc_0_2C1
02D4
02D4             ; _____
02D4             loc_0_2D4:                ; CODE XREF: sub_0_28B+3D↑j
02D4 3A 99 A0     ld      a, (unk_0_A099)
02D7 A7           and      a
02D8 C8           ret      z
02D9 AF           xor      a
02DA 32 99 A0     ld      (unk_0_A099), a
02DD 21 14 A0     ld      hl, 0A014h
02E0 3A 95 A0     ld      a, (sound_cmd)
02E3 D7           rst      10h
02E4 36 00        ld      (hl), 0
02E6 21 00 A0     ld      hl, 0A000h
02E9 3A 95 A0     ld      a, (sound_cmd)
02EC D7           rst      10h
02ED 3A 95 A0     ld      a, (sound_cmd)
02F0 A7           and      a
02F1 28 12        jr      z, loc_0_305
02F3 FE 14        cp      14h
02F5 28 0E        jr      z, loc_0_305
02F7 36 00        ld      (hl), 0
02F9 21 33 04     ld      hl, 433h          ; jump table
02FC 3A 95 A0     ld      a, (sound_cmd)
02FF CF           rst      8           ; HL += 2A (get entry address)
0300 5E           ld      e, (hl)
0301 23           inc      hl
0302 56           ld      d, (hl)          ; DE = jump address
0303 EB           ex      de, hl
0304 E9           jp      (hl)          ; go
0305
0305             ; _____
0305             loc_0_305:                ; CODE XREF: sub_0_28B+66↑j
0305 35           dec      (hl)          ; sub_0_28B+6A↑j
0306 C9           ret
0306             ; End of function sub_0_28B
0307
0307             ; ██████████ S U B R O U T I N E ██████████
0307
0307             sub_0_307:                ; CODE XREF: sub_0_248+12↑p
0307 21 28 A0     ; sub_0_28B+36↑p
0307             ld      hl, 0A028h
030A 3A 96 A0     ld      a, (unk_0_A096)
030D D7           rst      10h          ; HL += A
030E 34           inc      (hl)
030F 3A 96 A0     ld      a, (unk_0_A096)
0312 21 8A 04     ld      hl, 48A7h          ; data table
0315 CF           rst      8           ; HL += 2A
0316 5E           ld      e, (hl)
0317 23           inc      hl
0318 56           ld      d, (hl)          ; DE = data address
0319 21 54 A0     ld      hl, 0A054h
031C 3A 96 A0     ld      a, (unk_0_A096)
031F D7           rst      10h          ; HL += A
0320 7E           ld      a, (hl)
0321 EB           ex      de, hl
0322 D7           rst      10h          ; HL += A
0323 22 9A A0     ld      (unk_0_A09A), hl
0326 7E           ld      a, (hl)
0327 3C           inc      a
0328 C2 34 03     jp      nz, loc_0_334
032B E7           rst      20h
032C 36 00        ld      (hl), 0
032E 3E 01        ld      a, 1
0330 32 99 A0     ld      (unk_0_A099), a
0333 C9           ret
0334
0334             ; _____
0334             loc_0_334:                ; CODE XREF: sub_0_307+21↑j
0334 21 FC 04     ; table of triplets
0337 3A 96 A0     ld      a, (unk_0_A096)
033A D7           rst      10h          ; HL += A
033B 7E           ld      a, (hl)
033C A7           and      a
033D 28 05        jr      z, loc_0_344
033F 11 82 05     ld      de, 582h
0342 18 03        jr      loc_0_347
0344
0344             ; _____
0344             loc_0_344:                ; CODE XREF: sub_0_307+36↑j
0344 11 68 05     ld      de, 568h
0347

```

```

0347      loc_0_347:                                ; CODE XREF: sub_0_307+3B1j
0347 2A 9A A0      ld      hl, (unk_0_A09A)
034A 7E            ld      a, (hl)
034B 0F            rrca
034C 0F            rrca
034D 0F            rrca
034E 0F            rrca
034F E6 0F        and     0Fh          ; high nibble
0351 EB            ex      de, hl
0352 CF            rst     8           ; HL += 2A
0353 4E            ld      c, (hl)
0354 23            inc     hl
0355 46            ld      b, (hl)
0356 EB            ex      de, hl
0357 7E            ld      a, (hl)
0358 E6 0F        and     0Fh          ; low nibble
035A 28 07        jr      z, loc_0_363
035C
035C      loc_0_35C:                                ; CODE XREF: sub_0_307+5A1j
035C CB 38            srl     b
035E CB 19            rr      c           ; BC >= 1
0360 3D            dec     a
0361 20 F9        jr      nz, loc_0_35C ; BC >= A
0363
0363      loc_0_363:                                ; CODE XREF: sub_0_307+531j
0363 3A 98 A0      ld      a, (channel)
0366 A7            and     a           ; channel 0?
0367 28 0D        jr      z, loc_0_376 ; yes, branch
0369 3D            dec     a           ; channel 1?
036A 28 05        jr      z, loc_0_371 ; yes, branch
036C 21 8C A0      ld      hl, R_Ch2_freq
036F 18 08        jr      loc_0_379
0371
0371      loc_0_371:                                ; CODE XREF: sub_0_307+631j
0371 21 87 A0      ld      hl, 0A087h
0374 18 03        jr      loc_0_379
0376
0376      loc_0_376:                                ; CODE XREF: sub_0_307+601j
0376 21 82 A0      ld      hl, R_ch0_freq
0379
0379      loc_0_379:                                ; CODE XREF: sub_0_307+681j
0379 71            ; sub_0_307+6D1j
0379            ld      (hl), c
037A 7E            ld      a, (hl)
037B 0F            rrca
037C 0F            rrca
037D 0F            rrca
037E 0F            rrca
037F 23            inc     hl
0380 77            ld      (hl), a
0381 23            inc     hl
0382 70            ld      (hl), b
0383 7E            ld      a, (hl)
0384 0F            rrca
0385 0F            rrca
0386 0F            rrca
0387 0F            rrca
0388 23            inc     hl
0389 77            ld      (hl), a
038A EB            ex      de, hl
038B E7            rst     20h        ; get volume channel A
038C EB            ex      de, hl
038D 2A 9A A0      ld      hl, (unk_0_A09A)
0390 7E            ld      a, (hl)
0391 D6 C0        sub     0C0h ; 'L'
0393 28 4A        jr      z, loc_0_3DF
0395 3A 96 A0      ld      a, (unk_0_A096)
0398 21 32 05      ld      hl, 532h
039B D7            rst     10h        ; HL += A
039C A7            and     a
039D 28 21        jr      z, loc_0_3C0
039F 3D            dec     a
03A0 28 0F        jr      z, loc_0_3B1
03A2 21 28 A0      ld      hl, 0A028h
03A5 3A 96 A0      ld      a, (unk_0_A096)
03A8 D7            rst     10h        ; HL += A
03A9 7E            ld      a, (hl)
03AA FE 06        cp      6
03AC 30 12        jr      nc, loc_0_3C0
03AE 2F            cpl
03AF 18 33        jr      loc_0_3E4
03B1
03B1      loc_0_3B1:                                ; CODE XREF: sub_0_307+991j
03B1 21 28 A0      ld      hl, 0A028h
03B4 3A 96 A0      ld      a, (unk_0_A096)
03B7 D7            rst     10h        ; HL += A
03B8 7E            ld      a, (hl)
03B9 FE 08        cp      8
03BB 30 03        jr      nc, loc_0_3C0
03BD 87            add     a, a
03BE 18 24        jr      loc_0_3E4
03C0
03C0      loc_0_3C0:                                ; CODE XREF: sub_0_307+961j
03C0 21 4D 05      ; sub_0_307+A51j...
03C0            ld      hl, 54Dh
03C3 3A 96 A0      ld      a, (unk_0_A096)
03C6 D7            rst     10h        ; HL += A
03C7 7E            ld      a, (hl)
03C8 A7            and     a
03C9 28 17        jr      z, loc_0_3E2
03CB 47            ld      b, a
03CC 21 28 A0      ld      hl, 0A028h
03CF 3A 96 A0      ld      a, (unk_0_A096)
03D2 D7            rst     10h        ; HL += A
03D3 7E            ld      a, (hl)
03D4 90            sub     b
03D5 38 0B        jr      c, loc_0_3E2
03D7 D6 0A        sub     0Ah
03D9 30 04        jr      nc, loc_0_3DF
03DB ED 44        neg
03DD 18 05        jr      loc_0_3E4
03DF

```

```

03DF
03DF loc_0_3DF: ; CODE XREF: sub_0_307+8C↑j
03DF AF ; sub_0_307+D2↑j
03DF xor a
03E0 18 02 jr loc_0_3E4
03E2 ;
03E2
03E2 loc_0_3E2: ; CODE XREF: sub_0_307+C2↑j
03E2 3E 0A ; sub_0_307+CE↑j
03E2 ld a, 0Ah
03E4
03E4 loc_0_3E4: ; CODE XREF: sub_0_307+A8↑j
03E4 12 ; sub_0_307+B7↑j ...
03E4 ld (de), a
03E5 21 91 A0 hl, R_ch_0_wavrform
03E8 3A 98 A0 ld a, (channel)
03EB D7 rst 10h ; HL += A
03EC EB ex de, hl ; DE = channel <n> waveform (RAM copy)
03ED 21 17 05 ld hl, 517h ; table of waveform triplets
03F0 3A 96 A0 ld a, (unk_0_A096)
03F3 D7 rst 10h ; HL += A
03F4 ED A0 ldi
03F6 21 ED 04 ld hl, 4EDh
03F9 3A 95 A0 ld a, (sound_cmd)
03FC D7 rst 10h ; HL += A
03FD 7E ld a, (hl)
03FE 2A 9A A0 ld hl, (unk_0_A09A)
0401 23 inc hl
0402 5E ld e, (hl)
0403 16 00 ld d, 0
0405 21 00 00 ld hl, 0
0408 06 08 ld b, 8
040A
040A loc_0_40A: ; CODE XREF: sub_0_307+10C↑j
040A CB 3F srl a
040C 30 01 jr nc, loc_0_40F
040E 19 add hl, de
040F
040F loc_0_40F: ; CODE XREF: sub_0_307+105↑j
040F CB 23 sla e
0411 CB 12 rl d
0413 10 F5 djnz loc_0_40A
0415 45 ld b, 1
0416 21 28 A0 ld hl, 0A028h
0419 3A 96 A0 ld a, (unk_0_A096)
041C D7 rst 10h ; HL += A
041D 78 ld a, b
041E BE cp (hl)
041F C0 ret nz
0420 21 54 A0 ld hl, 0A054h
0423 3A 96 A0 ld a, (unk_0_A096)
0426 D7 rst 10h ; HL += A
0427 34 inc (hl)
0428 34 inc (hl)
0429 21 28 A0 ld hl, 0A028h
042C 3A 96 A0 ld a, (unk_0_A096)
042F D7 rst 10h ; HL += A
0430 36 00 ld (hl), 0
0432 C9 ret
0432 ; End of function sub_0_307
0432
0432 ;
0433 6F 04 .dw clear_A005_A019
0435 6F 04 .dw clear_A005_A019
0437 51 04 .dw null_routine
0439 51 04 .dw null_routine
043B 6F 04 .dw clear_A005_A019
043D 51 04 .dw null_routine
043F 51 04 .dw null_routine
0441 60 04 .dw loc_0_460
0443 51 04 .dw null_routine
0445 51 04 .dw null_routine
0447 67 04 .dw loc_0_467
0449 51 04 .dw null_routine
044B 51 04 .dw null_routine
044D 52 04 .dw loc_0_452
044F 51 04 .dw null_routine
0451 ;
0451
0451 null_routine: ; DATA XREF: 0000:0437↑o
0451 C9 ; 0000:0439↑o ...
0451 ret
0452 ;
0452
0452 loc_0_452: ; DATA XREF: 0000:044D↑o
0452 AF xor a
0453 32 05 A0 ld (unk_0_A005), a
0456 32 19 A0 ld (unk_0_A019), a
0459 AF xor a
045A 32 09 A0 ld (unk_0_A009), a
045D 32 1D A0 ld (unk_0_A01D), a
0460
0460 loc_0_460: ; DATA XREF: 0000:0441↑o
0460 AF xor a
0461 32 0C A0 ld (unk_0_A00C), a
0464 32 20 A0 ld (unk_0_A020), a
0467
0467 loc_0_467: ; DATA XREF: 0000:0447↑o
0467 AF xor a
0468 32 0B A0 ld (unk_0_A00B), a
046B 32 1F A0 ld (unk_0_A01F), a
046E C9 ret
046F ;
046F
046F clear_A005_A019: ; DATA XREF: 0000:0433↑o
046F 21 05 A0 ; 0000:0435↑o ...
046F ld hl, 0A005h
0472 11 06 A0 ld de, 0A006h
0475 01 09 00 ld bc, 9
0478 36 00 ld (hl), 0
047A ED B0 ldir ; clear A005-A00E
047C 21 19 A0 ld hl, 0A019h
047F 11 1A A0 ld de, 0A01Ah
0482 01 09 00 ld bc, 9
0485 36 00 ld (hl), 0 ; clear A019-A022
0487 ED B0 ldir

```

```

0489 C9                ret
0489
048A 9C 05            ; _____ ; data table
048C DD 05            .dw 59Ch
048E 1E 06            .dw 5DDh
0490 65 06            .dw 61Eh
0492 AC 06            .dw 665h
0494 F5 06            .dw 6ACh
0496 38 07            .dw 6F5h
0498 6B 07            .dw 738h
049A 9E 07            .dw 76Bh
049C DF 07            .dw 79Eh
049E 20 08            .dw 7DFh
04A0 D9 09            .dw 820h
04A2 DB 09            .dw 9D9h
04A4 DD 09            .dw 9DBh
04A6 B3 08            .dw 9DDh
04A8 B9 08            .dw 8B3h
04AA BF 08            .dw 8B9h
04AC 3D 09            .dw 8BFh
04AE E1 08            .dw 93Dh
04B0 9E 09            .dw 8E1h
04B2 C8 08            .dw 99Eh
04B4 38 09            .dw 8C8h
04B6 3A 09            .dw 938h
04B8 47 08            .dw 93Ah
04BA 58 08            .dw 847h
04BC EC 09            .dw 858h
04BE 11 0A            .dw 9ECh
04C0 00 02 00        .dw 0A11h
04C3 02 03 00        .db 0, 2, 0
04C6 05 03 00        .db 2, 3, 0
04C9 08 03 00        .db 5, 3, 0
04CC 0C 03 00        .db 8, 3, 0
04CF 0E 03 00        .db 0Ch, 3, 0
04D2 11 01 01        .db 0Eh, 3, 0
04D5 12 01 01        .db 11h, 1, 1
04D8 13 01 02        .db 12h, 1, 1
04DB 14 01 02        .db 13h, 1, 2
04DE 15 02 00        .db 14h, 1, 2
04E1 17 01 00        .db 15h, 2, 0
04E4 18 01 01        .db 17h, 1, 0
04E7 19 01 00        .db 18h, 1, 1
04EA 1A 01 00        .db 19h, 1, 0
04ED 02 10 0A        .db 1Ah, 1, 0
04F0 0C 10 06        .db 2, 10h, 0Ah
04F3 01 05 01        .db 0Ch, 10h, 6
04F6 01 06 01        .db 1, 5, 1
04F9 02 04 0C        .db 1, 6, 1
04FC 00 00 00        .db 2, 4, 0Ch
04FF 00 00 00        .db 0, 0, 0
0502 00 00 00        .db 0, 0, 0
0505 00 00 00        .db 0, 0, 0
0508 01 00 00        .db 1, 0, 0
050B 00 00 00        .db 0, 0, 0
050E 00 00 03        .db 0, 0, 3
0511 00 01 00        .db 0, 1, 0
0514 00 00 00        .db 0, 0, 0
0517 02 02 05        .db 2, 2, 5
051A 04 03 07        .db 4, 3, 7
051D 05 05 05        .db 5, 5, 5
0520 05 06 01        .db 5, 6, 1
0523 01 01 01        .db 1, 1, 1
0526 05 07 03        .db 5, 7, 3
0529 03 01 06        .db 3, 1, 6
052C 01 01 04        .db 1, 1, 4
052F 01 00 00        .db 1, 0, 0
0532 02 02 02        .db 2, 2, 2
0535 00 00 02        .db 0, 0, 2
0538 00 00 02        .db 0, 0, 2
053B 02 00 02        .db 2, 0, 2
053E 02 02 00        .db 2, 2, 0
0541 00 00 02        .db 0, 0, 2
0544 00 02 02        .db 0, 2, 2
0547 02 02 02        .db 2, 2, 2
054A 02 00 00        .db 2, 0, 0
054D 00 00 00        .db 0, 0, 0
0550 00 02 04        .db 0, 2, 4
0553 04 04 04        .db 4, 4, 4
0556 04 00 00        .db 4, 0, 0
0559 00 00 00        .db 0, 0, 0
055C 00 00 00        .db 0, 0, 0
055F 00 00 00        .db 0, 0, 0
0562 04 04 00        .db 4, 4, 0
0565 00 00 00        .db 0, 0, 0
0568 D0                .db 0D0h ; ð
0569 5A                .db 5Ah ; Z
056A 37                .db 37h ; 7
056B 60                .db 60h ; `
056C EF                .db 0EFh ; '
056D 65                .db 65h ; e
056E FF                .db 0FFh ; ¯
056F 6B                .db 6Bh ; k
0570 6B                .db 6Bh ; k
0571 72                .db 72h ; r
0572 39                .db 39h ; 9
0573 79                .db 79h ; y
0574 6E                .db 6Eh ; n
0575 80                .db 80h ; Ç
0576 11                .db 11h ;
0577 88                .db 88h ; ê
0578 29                .db 29h ; )
0579 90                .db 90h ; É
057A BC                .db 0BCh ; ¨
057B 98                .db 98h ; Ÿ
057C D0                .db 0D0h ; ð
057D A1                .db 0A1h ; i
057E 70                .db 70h ; p
057F AB                .db 0ABh ; ½
0580 00                .db 0 ;
0581 00                .db 0 ;
0582 11                .db 11h ;
0583 5C                .db 5Ch ; \
0584 8B                .db 8Bh ; i
0585 61                .db 61h ; a
0586 58                .db 58h ; X

```



```

0587 67 .db 67h ; g
0588 7D .db 7Dh ; }
0589 6D .db 6Dh ; m
058A 00 .db 0 ;
058B 74 .db 74h ; t
058C E6 .db 0E6h ; µ
058D 7A .db 7Ah ; z
058E 35 .db 35h ; 5
058F 82 .db 82h ; é
0590 F2 .db 0F2h ;
0591 89 .db 89h ; ë
0592 27 .db 27h ; '
0593 92 .db 92h ; æ
0594 D8 .db 0D8h ; ï
0595 9A .db 9Ah ; Ü
0596 0C .db 0Ch ;
0597 A4 .db 0A4h ; ã
0598 CE .db 0CEh ; ð
0599 AD .db 0ADh ; ï
059A 00 .db 0 ;
059B 00 .db 0 ;
059C 79 01 69 01+ .db 79h, 1, 69h, 1, 59h, 1, 49h, 1, 39h, 1, 29h, 1, 19h
059C 59 01 49 01+ .db 1, 9, 1, 78h, 1, 68h, 1, 58h, 1, 48h, 1, 38h, 1, 28h
059C 39 01 29 01+ .db 1, 18h, 1, 8, 1, 77h, 1, 67h, 1, 57h, 1, 47h, 1, 37h
059C 19 01 09 01+ .db 1, 52h, 1, 17h, 1, 7, 1, 76h, 1, 66h, 1, 56h, 1, 46h
059C 78 01 68 01+ .db 1, 36h, 1, 26h, 1, 16h, 1, 6, 1, 0FFh
05DD 89 01 79 01+ .db 89h, 1, 79h, 1, 69h, 1, 59h, 1, 49h, 1, 39h, 1, 29h
05DD 69 01 59 01+ .db 1, 19h, 1, 88h, 1, 78h, 1, 68h, 1, 58h, 1, 48h, 1
05DD 49 01 39 01+ .db 38h, 1, 28h, 1, 18h, 1, 87h, 1, 77h, 1, 67h, 1, 57h
05DD 29 01 19 01+ .db 1, 47h, 1, 32h, 1, 27h, 1, 17h, 1, 86h, 1, 76h, 1
05DD 88 01 78 01+ .db 66h, 1, 56h, 1, 46h, 1, 36h, 1, 26h, 1, 16h, 1, 0FFh
061E 56 04 C0 01+ .db 56h, 4, 0C0h, 1, 6, 1, 56h, 1, 96h, 1, 5, 1, 96h, 1
061E 06 01 56 01+ .db 0C0h, 1, 56h, 1, 76h, 1, 0C0h, 1, 76h, 1, 76h, 1, 0C0h
061E 96 01 05 01+ .db 1, 26h, 2, 0C0h, 1, 76h, 1, 56h, 1, 0C0h, 1, 46h, 1
061E 96 01 C0 01+ .db 56h, 4, 0C0h, 1, 6, 1, 56h, 1, 96h, 1, 5, 1, 96h, 1
061E 56 01 76 01+ .db 0C0h, 1, 56h, 1, 66h, 1, 0C0h, 1, 66h, 1, 66h, 1, 0C0h
061E C0 01 76 01+ .db 1, 56h, 7, 0FFh
0665 97 04 C0 01+ .db 97h, 4, 0C0h, 1, 97h, 1, 97h, 1, 6, 1, 56h, 1, 6, 1
0665 97 01 97 01+ .db 0C0h, 1, 97h, 1, 0A7h, 1, 0C0h, 1, 0A7h, 1, 0A7h, 1
0665 06 01 56 01+ .db 0C0h, 1, 0A7h, 2, 0C0h, 1, 0A7h, 1, 0A7h, 1, 0C0h
0665 06 01 C0 01+ .db 1, 0A7h, 1, 97h, 4, 0C0h, 1, 97h, 1, 97h, 1, 97h, 1
0665 97 01 A7 01+ .db 97h, 1, 97h, 1, 0C0h, 1, 97h, 1, 0A7h, 1, 0C0h, 1
0665 C0 01 A7 01+ .db 0A7h, 1, 0A7h, 1, 0C0h, 1, 97h, 7, 0FFh
06AC 59 01 59 01+ .db 59h, 1, 59h, 1, 59h, 1, 59h, 1, 0C0h, 2, 59h, 1, 59h
06AC 59 01 59 01+ .db 1, 59h, 1, 59h, 1, 0C0h, 2, 59h, 1, 59h, 1, 59h, 1
06AC C0 02 59 01+ .db 59h, 1, 0C0h, 2, 59h, 1, 59h, 1, 59h, 1, 59h, 1, 0C0h
06AC 59 01 59 01+ .db 2, 59h, 1, 59h, 1, 59h, 1, 59h, 1, 0C0h, 2, 59h, 1
06AC 59 01 C0 02+ .db 59h, 1, 59h, 1, 59h, 1, 0C0h, 2, 59h, 1, 59h, 1, 59h
06AC 59 01 59 01+ .db 1, 59h, 1, 0C0h, 1, 59h, 7, 0FFh
06F5 07 01 07 01+ .db 7, 1, 7, 1, 7, 2, 7, 2, 7, 2, 7, 2, 7, 2, 7, 2, 27h
06F5 07 02 07 02+ .db 2, 47h, 2, 57h, 2, 57h, 2, 57h, 2, 57h, 2, 57h, 2
06F5 07 02 07 02+ .db 97h, 2, 77h, 2, 57h, 2, 77h, 2, 77h, 2, 77h, 2, 77h
06F5 07 02 07 02+ .db 2, 77h, 2, 26h, 2, 6, 2, 0A7h, 2, 97h, 2, 97h, 2, 97h
06F5 27 02 47 02+ .db 2, 97h, 2, 97h, 2, 0A7h, 2, 6, 2, 0FFh
0738 C0 02 A8 02+ .db 0C0h, 2, 0A8h, 2, 0A8h, 2, 0C0h, 4, 0A8h, 2, 0A8h
0738 A8 02 C0 04+ .db 2, 0C0h, 4, 98h, 2, 98h, 2, 0C0h, 4, 98h, 2, 98h, 2
0738 A8 02 A8 02+ .db 0C0h, 4, 0A8h, 2, 0A8h, 2, 0C0h, 4, 0A8h, 2, 0A8h
0738 C0 04 98 02+ .db 2, 0C0h, 4, 98h, 2, 98h, 2, 0C0h, 4, 98h, 2, 98h, 2
0738 98 02 C0 04+ .db 0C0h, 2, 0FFh
076B C0 02 08 02+ .db 0C0h, 2, 8, 2, 8, 2, 0C0h, 4, 8, 2, 8, 2, 0C0h, 4
076B 08 02 C0 04+ .db 58h, 2, 58h, 2, 0C0h, 4, 58h, 2, 58h, 2, 0C0h, 4, 8
076B 08 02 08 02+ .db 2, 8, 2, 0C0h, 4, 8, 2, 8, 2, 0C0h, 4, 58h, 2, 58h
076B C0 04 58 02+ .db 2, 0C0h, 4, 58h, 2, 58h, 2, 0C0h, 2, 0FFh
079E 96 04 96 04+ .db 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h
079E 96 04 96 04+ .db 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4
079E 96 04 96 04+ .db 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h
079E 96 04 96 04+ .db 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4
079E 96 04 96 04+ .db 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 96h, 4, 0FFh
07DF 56 04 56 04+ .db 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h
07DF 56 04 56 04+ .db 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4
07DF 56 04 56 04+ .db 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h
07DF 56 04 56 04+ .db 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4
07DF 56 04 56 04+ .db 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 56h, 4, 0FFh
0820 58 01 07 01+ .db 58h, 1, 7, 1, 46h, 0Dh, 26h, 1, 16h, 3, 46h, 1, 26h
0820 46 0D 26 01+ .db 0Ch, 58h, 1, 7, 1, 36h, 0Dh, 26h, 1, 36h, 3, 56h, 1
0820 16 03 46 01+ .db 76h, 3, 56h, 1, 36h, 3, 26h, 1, 6, 3, 26h, 1, 0FFh
0847 69 01 64 01+ .db 69h, 1, 64h, 1, 79h, 1, 14h, 1, 89h, 1, 85h, 1, 99h
0847 79 01 14 01+ .db 1, 35h, 1, 0FFh
0858 06 01 16 01+ .db 6, 1, 16h, 1, 26h, 1, 36h, 1, 46h, 1, 36h, 1, 26h
0858 26 01 36 01+ .db 1, 16h, 1, 6, 1, 0B7h, 1, 0A7h, 1, 97h, 1, 87h, 1
0858 46 01 36 01+ .db 77h, 1, 67h, 1, 57h, 1, 47h, 1, 37h, 1, 27h, 1, 17h
0858 26 01 16 01+ .db 1, 7, 1, 0B8h, 1, 0A8h, 1, 98h, 1, 88h, 1, 78h, 1
0858 06 01 B7 01+ .db 68h, 1, 58h, 1, 48h, 1, 38h, 1, 28h, 1, 18h, 1, 8
0858 A7 01 97 01+ .db 1, 0B9h, 1, 0A9h, 1, 99h, 1, 89h, 1, 79h, 1, 69h, 1
0858 87 01 77 01+ .db 59h, 1, 49h, 1, 39h, 1, 29h, 1, 19h, 1, 9, 1, 0FFh
08B3 04 01 74 01+ .db 4, 1, 74h, 1, 24h, 1
08B9 94 01 44 01+ .db 94h, 1, 44h, 1, 0B4h, 1
08BF 64 01 14 01+ .db 64h, 1, 14h, 1, 84h, 1, 34h, 1, 0FFh
08C8 0A 01 19 01+ .db 0Ah, 1, 19h, 1, 0Ah, 1, 19h, 1, 25h, 1, 34h, 1, 25h
08C8 0A 01 19 01+ .db 1, 34h, 1, 43h, 1, 52h, 1, 43h, 1, 52h, 1, 0FFh
08E1 09 01 19 01+ .db 9, 1, 19h, 1, 9, 1, 29h, 1, 9, 1, 39h, 1, 9, 1, 49h
08E1 09 01 29 01+ .db 1, 9, 1, 39h, 1, 9, 1, 29h, 1, 9, 1, 19h, 1, 9, 1
08E1 09 01 39 01+ .db 19h, 1, 9, 1, 29h, 1, 9, 1, 39h, 1, 9, 1, 49h, 1, 9
08E1 09 01 49 01+ .db 1, 39h, 1, 9, 1, 29h, 1, 9, 1, 19h, 1, 9, 1, 19h, 1
08E1 09 01 39 01+ .db 9, 1, 29h, 1, 9, 1, 39h, 1, 9, 1, 49h, 1, 9, 1, 39h
08E1 09 01 29 01+ .db 1, 9, 1, 29h, 1, 9, 1, 19h, 1, 9, 1, 0FFh
0938 05 01 .db 5, 1
093A 15 05 FF .db 15h, 5, 0FFh
093D 04 01 29 01+ .db 4, 1, 29h, 1, 14h, 1, 29h, 1, 4, 1, 39h, 1, 14h, 1
093D 14 01 29 01+ .db 39h, 1, 4, 1, 49h, 1, 14h, 1, 49h, 1, 4, 1, 59h, 1
093D 04 01 39 01+ .db 14h, 1, 59h, 1, 4, 1, 29h, 1, 14h, 1, 29h, 1, 4, 1
093D 14 01 39 01+ .db 39h, 1, 14h, 1, 39h, 1, 4, 1, 49h, 1, 14h, 1, 49h
093D 04 01 49 01+ .db 1, 4, 1, 59h, 1, 14h, 1, 59h, 1, 4, 1, 29h, 1, 14h
093D 14 01 49 01+ .db 1, 29h, 1, 4, 1, 39h, 1, 14h, 1, 39h, 1, 4, 1, 49h
093D 04 01 59 01+ .db 1, 14h, 1, 49h, 1, 4, 1, 59h, 1, 14h, 1, 59h, 1, 0FFh
099E 05 01 15 01+ .db 5, 1, 15h, 1, 35h, 1, 65h, 1, 0A5h, 1, 65h, 1, 35h
099E 35 01 65 01+ .db 1, 25h, 2, 15h, 2, 5, 3, 6, 3, 7, 4, 8, 4, 9, 8, 0Ah
099E A5 01 65 01+ .db 8, 9, 8, 0Ah, 8, 9, 8, 0Ah, 8, 9, 8, 0Ah, 8, 9, 8
099E 35 01 25 02+ .db 0Ah, 8, 9, 8, 0Ah, 8, 9, 8, 0Ah, 8, 9, 8, 0Ah, 8, 0FFh
09D9 05 01 .db 5, 1
09DB 76 01 .db 76h, 1
09DD 46 01 06 01+ .db 46h, 1, 6, 1, 77h, 1, 6, 1, 46h, 1, 76h, 1, 5, 1, 0FFh
09EC 26 01 56 01+ .db 26h, 1, 56h, 1, 76h, 1, 96h, 1, 5, 1, 25h, 1, 26h
09EC 76 01 96 01+ .db 1, 56h, 1, 76h, 1, 96h, 1, 5, 1, 25h, 1, 26h, 1, 56h
09EC 05 01 25 01+ .db 1, 76h, 1, 96h, 1, 5, 1, 25h, 1, 0FFh
0A11 06 01 05 01+ .db 6, 1, 5, 1, 0B6h, 1, 5, 1, 45h, 1, 5, 1, 0B6h, 1, 5

```

[illegible]

[illegible]

```

A00F ??                .block 1
A010 ??                .block 1
A011 ??                .block 1
A012 ??                .block 1
A013 ??                .block 1
A014 ??                .block 1
A015 ??                .block 1
A016 ??                .block 1
A017 ??                .block 1
A018 ??                .block 1
A019 ??                .block 1
A01A ??                .block 1
A01B ??                .block 1
A01C ??                .block 1
A01D ??                .block 1
A01E ??                .block 1
A01F ??                .block 1
A020 ??                .block 1
A021 ??                .block 1
A022 ??                .block 1
A023 ??                .block 1
A024 ??                .block 1
A025 ??                .block 1
A026 ??                .block 1
A027 ??                .block 1
A028 ??                .block 1
A029 ??                .block 1
A02A ??                .block 1
A02B ??                .block 1
A02C ??                .block 1
A02D ??                .block 1
A02E ??                .block 1
A02F ??                .block 1
A030 ??                .block 1
A031 ??                .block 1
A032 ??                .block 1
A033 ??                .block 1
A034 ??                .block 1
A035 ??                .block 1
A036 ??                .block 1
A037 ??                .block 1
A038 ??                .block 1
A039 ??                .block 1
A03A ??                .block 1
A03B ??                .block 1
A03C ??                .block 1
A03D ??                .block 1
A03E ??                .block 1
A03F ??                .block 1
A040 ??                .block 1
A041 ??                .block 1
A042 ??                .block 1
A043 ??                .block 1
A044 ??                .block 1
A045 ??                .block 1
A046 ??                .block 1
A047 ??                .block 1
A048 ??                .block 1
A049 ??                .block 1
A04A ??                .block 1
A04B ??                .block 1
A04C ??                .block 1
A04D ??                .block 1
A04E ??                .block 1
A04F ??                .block 1
A050 ??                .block 1
A051 ??                .block 1
A052 ??                .block 1
A053 ??                .block 1
A054 ??                .block 1
A055 ??                .block 1
A056 ??                .block 1
A057 ??                .block 1
A058 ??                .block 1
A059 ??                .block 1
A05A ??                .block 1
A05B ??                .block 1
A05C ??                .block 1
A05D ??                .block 1
A05E ??                .block 1
A05F ??                .block 1
A060 ??                .block 1
A061 ??                .block 1
A062 ??                .block 1
A063 ??                .block 1
A064 ??                .block 1
A065 ??                .block 1
A066 ??                .block 1
A067 ??                .block 1
A068 ??                .block 1
A069 ??                .block 1
A06A ??                .block 1
A06B ??                .block 1
A06C ??                .block 1
A06D ??                .block 1
A06E ??                .block 1
A06F ??                .block 1
A070 ??                .block 1
A071 ??                .block 1
A072 ??                .block 1
A073 ??                .block 1
A074 ??                .block 1
A075 ??                .block 1
A076 ??                .block 1
A077 ??                .block 1
A078 ??                .block 1
A079 ??                .block 1
A07A ??                .block 1
A07B ??                .block 1
A07C ??                .block 1
A07D ??                .block 1
A07E ??                .block 1
A07F ??                .block 1
A080 ??                .block 1
A081 ??                .block 1

```

```

unk_0_A019:
unk_0_A01D:
unk_0_A01E:
unk_0_A01F:
unk_0_A020:

```

```

; DATA XREF: 0000:009A|o
; 0000:01F0|o

```

```

A082 ?? ?? ?? ?? R_ch0_freq:      .block 4          ; DATA XREF: 0000:009F↑o
A082                                     ; sub_0_307+6F↑o
A086 ??          R_ch0_vol:      .block 1          ; DATA XREF: get_volume_channel_A+11↑o
A087 ?? ?? ?? ?? R_ch1_freq:      .block 4
A08B ??          R_ch1_vol:      .block 1          ; DATA XREF: get_volume_channel_A+D↑o
A08C ?? ?? ?? ?? R_ch2_freq:      .block 4          ; DATA XREF: sub_0_307+65↑o
A090 ??          R_ch2_vol:      .block 1          ; DATA XREF: get_volume_channel_A+9↑o
A091 ??          R_ch_0_wavrform: .block 1          ; DATA XREF: 0000:01FB↑r
A091                                     ; sub_0_307+DE↑o
A092 ??          R_ch_1_waveform: .block 1
A093 ??          R_ch_2_waveform: .block 1
A094 ??          unk_0_A094:      .block 1
A095 ??          sound_cmd:      .block 1          ; DATA XREF: 0000:00D4↑o
A095                                     ; 0000:00E5↑o ...
A096 ??          unk_0_A096:      .block 1
A097 ??          .block 1
A098 ??          channel:      .block 1          ; DATA XREF: get_volume_channel_A↑r
A098                                     ; sub_0_307+5C↑r ...
A099 ??          unk_0_A099:      .block 1
A09A ??          unk_0_A09A:      .block 1
A09B ??          .block 1
A09C ??          .block 1
A09D ??          .block 1
A09E ??          .block 1
A09F ??          .block 1
A0A0 ??          .block 1
A0A1 ??          .block 1
A0A2 ??          .block 1
A0A3 ??          .block 1
A0A4 ??          .block 1
A0A5 ??          .block 1
A0A6 ??          .block 1
A0A7 ??          .block 1
A0A8 ??          .block 1
A0A9 ??          .block 1
A0AA ??          .block 1
A0AB ??          .block 1
A0AC ??          .block 1
A0AD ??          .block 1
A0AE ??          .block 1
A0AF ??          .block 1
A0B0 ??          .block 1
A0B1 ??          .block 1
A0B2 ??          .block 1
A0B3 ??          .block 1
A0B4 ??          .block 1
A0B5 ??          .block 1
A0B6 ??          .block 1
A0B7 ??          .block 1
A0B8 ??          .block 1
A0B9 ??          .block 1
A0BA ??          .block 1
A0BB ??          .block 1
A0BC ??          .block 1
A0BD ??          .block 1
A0BE ??          .block 1
A0BF ??          .block 1
A0C0 ??          .block 1
A0C1 ??          .block 1
A0C2 ??          .block 1
A0C3 ??          .block 1
A0C4 ??          .block 1
A0C5 ??          .block 1
A0C6 ??          .block 1
A0C7 ??          .block 1
A0C8 ??          .block 1
A0C9 ??          .block 1
A0CA ??          .block 1
A0CB ??          .block 1
A0CC ??          .block 1
A0CD ??          .block 1
A0CE ??          .block 1
A0CF ??          .block 1
A0D0 ??          .block 1
A0D1 ??          .block 1
A0D2 ??          .block 1
A0D3 ??          .block 1
A0D4 ??          .block 1
A0D5 ??          .block 1
A0D6 ??          .block 1
A0D7 ??          .block 1
A0D8 ??          .block 1
A0D9 ??          .block 1
A0DA ??          .block 1
A0DB ??          .block 1
A0DC ??          .block 1
A0DD ??          .block 1
A0DE ??          .block 1
A0DF ??          .block 1
A0E0 ??          .block 1
A0E1 ??          .block 1
A0E2 ??          .block 1
A0E3 ??          .block 1
A0E4 ??          .block 1
A0E5 ??          .block 1
A0E6 ??          .block 1
A0E7 ??          .block 1
A0E8 ??          .block 1
A0E9 ??          .block 1
A0EA ??          .block 1
A0EB ??          .block 1
A0EC ??          .block 1
A0ED ??          .block 1
A0EE ??          .block 1
A0EF ??          .block 1
A0F0 ??          .block 1
A0F1 ??          .block 1
A0F2 ??          .block 1
A0F3 ??          .block 1
A0F4 ??          .block 1
A0F5 ??          .block 1
A0F6 ??          .block 1
A0F7 ??          .block 1
A0F8 ??          .block 1
A0F9 ??          .block 1
A0FA ??          .block 1

```

```
A0FB ??                .block 1
A0FC ??                .block 1
A0FD ??                .block 1
A0FE ??                .block 1
A0FF ??                .block 1
A100 ?? ?? ?? ??+     .block 700h
A100 ?? ?? ?? ??+; end of 'share4'
A100 ?? ?? ?? ??+
A100 ?? ?? ?? ??+
A100 ?? ?? ?? ??+
A100 ?? ?? ?? ??+     .end
```