```
                    //
                    // RAM
                    // RAM:0000-RAM:0fff
                    //

                    ************************************************************
                    * MC68705U3 - 8-Bit EPROM Microcontroller Unit               *
                    *                                                            *
                    * The MC68705U3 (HMOS) Microcontroller Unit (MCU) is an E... *
                    * The user programmable EPROM allows 'program changes and... *
                    * This low cost MCU has parallel I/O capability with pins... *
                    *                                                            *
                    * • Internal 8-Bit Timer with 7-Bit Programmable Prescaler    *
                    * • On-chip Oscillator                                       *
                    * • Memory Mapped 1/0                                        *
                    * • Versatile Interrupt Handling                             *
                    * • Bit Manipulation                                         *
                    * • Bit Test and Branch Instruction                          *
                    * • Vectored Interrupts                                      *
                    * • Bootstrap Program in ROM                                 *
                    * • 112 Bytes of RAM                                         *
                    * • 3776 Bytes of EPROM                                      *
                    * • 24110 Pins                                               *
                    ************************************************************
                    PORT A I/O Lines

                    Connected to bus PA(7:0) for READ/WRITE.
                    PA(7:0) will output signals to IDB(7:0) via CHIP 3B if EPANS ...

                    PORTA                                   XREF[48]:   Clock_PB3_RMM_Return_Port_A:09bf...
                                                                        FUN_09c5:09c6(W),
                                                                        FUN_09ee:09f4(W),
                                                                        FUN_09ee:09fc(W),
                                                                        FUN_09ee:0a04(W),
                                                                        FUN_09ee:0a12(W),
                                                                        FUN_09ee:0a20(W),
                                                                        FUN_09ee:0a2c(W),
                                                                        FUN_09ee:0a3a(W),
                                                                        FUN_09ee:0a46(W),
                                                                        FUN_09ee:0a54(W),
                                                                        FUN_09ee:0a60(W),
                                                                        FUN_09ee:0a6e(W),
                                                                        FUN_09ee:0a7a(W),
                                                                        FUN_09ee:0a88(W),
                                                                        FUN_09ee:0a94(W),
                                                                        FUN_09ee:0aa2(W),
                                                                        FUN_09ee:0aaf(W),
                                                                        FUN_09ee:0ab7(W),
                                                                        FUN_0ac0:0ac6(W), [more]
0000 00             ??          00h

                    PORT B I/O Lines

                    PB0 = /WMM (clock signal to latch PA(7:0) data on chip 32B / ...
                    PB1 = /WRCLK (connected to MM58247 RTC pin 3 /WD)
                    PB2 = /ROCLK (connected to MM58247 RTC pin 2 /RD)
                    PB3 = /RMM (signal to somewhere(?) on the CPU board)
                    PB4 = STAT3
                    PB5 = STAT4
                    PB6 = READ (IDB:13)
                    PB7 = STAT7 => INVERTED TO PRES (IDB:15) <= PRESENT SIGNAL if...



                    PORTB                                   XREF[77]:   RESET:012c(W), RESET:0153(RW),
                                                                        RESET:0155(RW), RESET:0195(RW),
                                                                        FUN_06be:06d3(RW),
                                                                        FUN_06be:06e1(RW),
                                                                        FUN_06be:06ed(RW),
                                                                        FUN_06be:06fa(RW),
                                                                        FUN_06be:0712(RW),
                                                                        Clock_PB3_RMM_Return_Port_A:09bd...
                                                                        Clock_PB3_RMM_Return_Port_A:09c1...
                                                                        FUN_09c5:09cc(RW),
                                                                        FUN_09c5:09ce(RW),
                                                                        FUN_09ee:09f6(RW),
                                                                        FUN_09ee:09f8(RW),
                                                                        FUN_09ee:09fe(RW),
                                                                        FUN_09ee:0a00(RW),
                                                                        FUN_09ee:0a06(RW),
                                                                        FUN_09ee:0a08(RW),
                                                                        FUN_09ee:0a14(RW), [more]
0001 00             ??          00h
```

```
                    PORT C I/O Lines

                    STAT 0-4 goew to IDB(8:11)

                    PC0 = STAT0
                    PC1 = STAT1
                    PC2 = STAT2

                    DISP1-5 is to control display ? Goes to bus /DP(5:1) via inve...

                    PC3 = DISP1
                    PC4 = DISP2
                    PC5 = DISP3
                    PC6 = DISP4
                    PC7 = DISP5


                    PORTC                                   XREF[13]:   RESET:0134(W),
                                                                        Read_Write_Port_C:04a7(R),
                                                                        Read_Write_Port_C:04b0(W),
                                                                        Read_Write_Port_C:04b2(W),
                                                                        Read_Write_Port_C:04b6(W),
                                                                        Read_Write_Port_C:04b8(RW),
                                                                        Read_Write_Port_C:04be(W),
                                                                        Read_Write_Port_C:04c0(RW),
                                                                        Read_Write_Port_C:04cc(W),
                                                                        Read_Write_Port_C:04ce(RW),
                                                                        Read_Write_Port_C:04d5(W),
                                                                        FUN_06be:06c5(R),
                                                                        FUN_06be:06cb(W)
    0002 00             ??          00h

                    PORT D *INPUT* lines
                    PIN PD6 can be /INT2


                    PD0 = PCR0
                    PD1 = PCR1
                    PD2 = PONI
                    PD3 = IONI
                    PD4 = LHIT
                    PD5 = LEV0 (Level 0. Meaning CPU inactive)
                    PD6 = HIGH (To avoid external interrupt to be triggered)
                    PD7 = /EMP
                    PORTD                                   XREF[5]:    RESET:0158(R), RESET:01a2(R),
                                                                        Read_Port_D:09af(R),
                                                                        Read_Port_D:09b4(R),
                                                                        Read_Port_D_Update_CLR:09d4(R)
    0003 00             ??          00h

                    DDRA                                    XREF[8]:    RESET:0128(W),
                                                                        Read_Bytes_from_Port_A:0643(W),
                                                                        FUN_09c5:09ca(W),
                                                                        FUN_09c5:09d0(W),
                                                                        FUN_09ee:09f0(W),
                                                                        FUN_09ee:0abd(W),
                                                                        FUN_0ac0:0ac2(W),
                                                                        FUN_0ac0:0bdb(W)
    0004 00             ??          00h

                    DDRB                                    XREF[2]:    RESET:0130(W),
                                                                        Read_Bytes_from_Port_A:0645(W)
    0005 00             ??          00h

                    DDRC                                    XREF[2]:    RESET:0138(W),
                                                                        Read_Bytes_from_Port_A:0647(W)
    0006 00             ??          00h

                    DDRD                                    XREF[1]:    RESET:013a(W)
    0007 00             ??          00h

                    TDR_Timer_Data_Register                 XREF[3]:    RESET:0145(W), RESET:0197(R),
                                                                        TIMER_INTERRUPT:08ca(W)
    0008 00             ??          00h
```

```
                    Timer Control Register Bits

                    b7 - TIR - Timer Interrupt Request Status (Set to 1 when time…
                    b6 - TIM - Timer Interrupt MASK (1=Interrupt inhibited, 0=Int…
                    b5 - TIN - Timer Input Select (1=External clock, 0=Internal c…
                    b4 - TIE - Timer External Input Enable (1=Enable external tim…
                    b3- PSC - Prescaler Clear (Write only. Writing 1 resets the p…
                    b2 - PS2 - Prescaler select 2
                    b1 - PS1 - Prescaler select 1
                    b0 - PS0 - Prescaler select 0

                    PS2  PS1  PS0  - Divide by
                    0    0    0       1
                    0    0    1       2
                    0    1    0       4
                    0    1    1       8
                    1    0    0       16
                    1    0    1       32
                    1    1    0       64
                    1    1    1       128

                    MR_Misc_register(0009+1)                    XREF[3,3]:   RESET:0141(W),
                    PCR_Program_Control_Register(0009+2)                     Read_Bytes_from_Port_A:063d(W),
                    TCR_Timer_Control_Register                               TIMER_INTERRUPT:08cc(RW),
                                                                             RESET:0149(W),
                                                                             Read_Bytes_from_Port_A:0639(W),
                                                                             Read_Bytes_from_Port_A:0641(W)
0009 00 00 00 00    float       0.0
000d 00             ??          00h
000e 00             ??          00h
000f 00             ??          00h

                    0x010 RAM START (112 bytes)
                    0x07F RAM END
                    RAM_0010                                    XREF[5]:     FUN_01b4:01de(R),
                                                                             Read_Bytes_from_Port_A:053d(W),
                                                                             Read_Bytes_from_Port_A:0603(W),
                                                                             Read_Bytes_from_Port_A:0618(W),
                                                                             Read_Port_D:09ad(W)
0010 00             ??          00h

                    RAM_0011                                    XREF[6]:     FUN_01b4:01d0(R),
                                                                             Read_Bytes_from_Port_A:0543(W),
                                                                             Read_Bytes_from_Port_A:0568(W),
                                                                             Read_Bytes_from_Port_A:05fd(W),
                                                                             Read_Bytes_from_Port_A:0613(W),
                                                                             Read_Port_D:099c(W)
0011 00             ??          00h

                    RAM_0012                                    XREF[7]:     FUN_01b4:01c2(R),
                                                                             Read_Bytes_from_Port_A:0558(W),
                                                                             Read_Bytes_from_Port_A:0561(W),
                                                                             Read_Bytes_from_Port_A:056d(W),
                                                                             Read_Bytes_from_Port_A:05b2(W),
                                                                             Read_Bytes_from_Port_A:05f1(W),
                                                                             Read_Bytes_from_Port_A:0622(W)
0012 00             ??          00h

                    RAM_0013                                    XREF[7]:     FUN_01b4:01b4(R),
                                                                             Read_Bytes_from_Port_A:0556(W),
                                                                             Read_Bytes_from_Port_A:055f(W),
                                                                             Read_Bytes_from_Port_A:0570(W),
                                                                             Read_Bytes_from_Port_A:05be(W),
                                                                             Read_Bytes_from_Port_A:05eb(W),
                                                                             Read_Bytes_from_Port_A:061d(W)
0013 00             ??          00h

                    RAM_0014                                    XREF[6]:     FUN_01ed:025f(R),
                                                                             FUN_01ed:026d(R),
                                                                             FUN_01ed:027b(R),
                                                                             Read_Bytes_from_Port_A:051e(W),
                                                                             Read_Bytes_from_Port_A:0589(W),
                                                                             Read_Bytes_from_Port_A:05d0(W)
0014 00             ??          00h

                    RAM_0015                                    XREF[8]:     FUN_01ed:0230(R),
                                                                             FUN_01ed:0240(R),
                                                                             FUN_01ed:024d(R),
                                                                             FUN_01ed:025d(R),
                                                                             FUN_01ed:02c8(R),
                                                                             Read_Bytes_from_Port_A:0528(W),
                                                                             Read_Bytes_from_Port_A:0587(W),
                                                                             Read_Bytes_from_Port_A:05ce(W)
0015 00             ??          00h
```

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                    RAM_0016                                XREF[11]:   FUN_01ed:0213(R),
                                                                        FUN_01ed:021f(R),
                                                                        FUN_01ed:022e(R),
                                                                        FUN_01ed:02aa(R),
                                                                        Read_CHR_OCHR:03ff(R),
                                                                        Read_CHR_OCHR:040d(R),
                                                                        Read_CHR_OCHR:041b(R),
                                                                        Read_Bytes_from_Port_A:0523(W),
                                                                        Read_Bytes_from_Port_A:0582(W),
                                                                        Read_Bytes_from_Port_A:05cc(W),
                                                                        FUN_066b:0670(R)
0016 00             ??          00h

                    RAM_0017                                XREF[13]:   Read_CHR_OCHR:03a9(R),
                                                                        Read_CHR_OCHR:03b9(R),
                                                                        Read_CHR_OCHR:03c6(R),
                                                                        Read_CHR_OCHR:03d9(R),
                                                                        Read_CHR_OCHR:03fd(R),
                                                                        Read_CHR_OCHR:045a(R),
                                                                        Read_Bytes_from_Port_A:0532(W),
                                                                        Read_Bytes_from_Port_A:057d(W),
                                                                        Read_Bytes_from_Port_A:059c(W),
                                                                        Read_Bytes_from_Port_A:05da(W),
                                                                        FUN_066b:067b(RW),
                                                                        FUN_066b:0687(W),
                                                                        FUN_066b:068e(RW)
0017 00             ??          00h

                    DAT_0018                                XREF[12]:   Read_CHR_OCHR:038c(R),
                                                                        Read_CHR_OCHR:0398(R),
                                                                        Read_CHR_OCHR:03a7(R),
                                                                        Read_CHR_OCHR:043c(R),
                                                                        Read_Bytes_from_Port_A:052d(W),
                                                                        Read_Bytes_from_Port_A:0578(W),
                                                                        Read_Bytes_from_Port_A:0597(W),
                                                                        Read_Bytes_from_Port_A:05d5(W),
                                                                        FUN_066b:067d(RW),
                                                                        FUN_066b:0682(R),
                                                                        FUN_066b:0689(W),
                                                                        FUN_066b:068c(RW)
0018 00             ??          00h

                    PortD_PONI_IONI_bit_4_5                 XREF[7]:    Read_Bytes_from_Port_A:05ad(R),
                                                                        Read_Bytes_from_Port_A:05b4(R),
                                                                        FUN_06b2:06b7(R),
                                                                        FUN_06b2:06bb(W),
                                                                        Read_Port_D_Update_CLR:09dc(W),
                                                                        Read_Port_D_Update_CLR:09e9(R),
                                                                        Read_Port_D_Update_CLR:09eb(W)
0019 00             ??          00h

                    RAM_001a                                XREF[5]:    RESET:014c(W),
                                                                        Read_Bytes_from_Port_A:053e(R),
                                                                        Read_Bytes_from_Port_A:0545(R),
                                                                        Read_Bytes_from_Port_A:054d(R),
                                                                        Read_Bytes_from_Port_A:060b(W)
001a 00             ??          00h

                    DAT_001b                                XREF[22]:   FUN_01ed:01ed(R),
                                                                        FUN_01ed:01f0(R),
                                                                        FUN_01ed:0202(R),
                                                                        FUN_01ed:029b(R),
                                                                        Read_CHR_OCHR:037b(R),
                                                                        Read_CHR_OCHR:03d6(R),
                                                                        Read_Bytes_from_Port_A:0534(RW),
                                                                        Read_Bytes_from_Port_A:0536(RW),
                                                                        Read_Bytes_from_Port_A:0538(RW),
                                                                        Read_Bytes_from_Port_A:058b(RW),
                                                                        Read_Bytes_from_Port_A:058d(RW),
                                                                        Read_Bytes_from_Port_A:058f(RW),
                                                                        Read_Bytes_from_Port_A:059e(RW),
                                                                        Read_Bytes_from_Port_A:05a0(RW),
                                                                        Read_Bytes_from_Port_A:05a2(RW),
                                                                        Read_Bytes_from_Port_A:05c3(RW),
                                                                        Read_Bytes_from_Port_A:05c5(RW),
                                                                        Read_Bytes_from_Port_A:05c7(RW),
                                                                        Read_Bytes_from_Port_A:064d(RW),
                                                                        Read_Bytes_from_Port_A:0652(RW),
                                                                        [more]
001b 00             ??          00h
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```
                    RAM_001c                                XREF[10]:   Read_Bytes_from_Port_A:04db(W),
                                                                        Read_Bytes_from_Port_A:04dd(R),
                                                                        Read_Bytes_from_Port_A:04e3(R),
                                                                        FUN_06be:06be(R),
                                                                        FUN_06be:06c3(W),
                                                                        FUN_06be:06c9(R),
                                                                        FUN_06be:06da(W),
                                                                        FUN_06be:06e6(R),
                                                                        FUN_06be:06ff(R),
                                                                        FUN_06be:070b(R)
001c 00             ??          00h

                    RAM_001d                                XREF[10]:   FUN_01ed:01f9(R),
                                                                        Read_CHR_OCHR:037e(R),
                                                                        Read_Bytes_from_Port_A:04ed(R),
                                                                        Read_Bytes_from_Port_A:05a6(W),
                                                                        Read_Bytes_from_Port_A:062a(W),
                                                                        Read_Bytes_from_Port_A:0654(R),
                                                                        Read_Bytes_from_Port_A:0662(R),
                                                                        Read_Bytes_from_Port_A:0666(W),
                                                                        FUN_0694:0695(R),
                                                                        FUN_0694:06a1(R)
001d 00             ??          00h

                    RAM_001e                                XREF[7]:    Read_Bytes_from_Port_A:05aa(W),
                                                                        Read_Bytes_from_Port_A:062f(W),
                                                                        Read_Bytes_from_Port_A:0657(RW),
                                                                        Read_Bytes_from_Port_A:065a(RW),
                                                                        Read_Bytes_from_Port_A:065d(R),
                                                                        Read_Bytes_from_Port_A:0660(W),
                                                                        FUN_066b:0674(R)
001e 00             ??          00h

                    RAM_001f                                XREF[2]:    RESET:0150(W), RESET:015b(RW)
001f 00             ??          00h

                    DAT_0020                                XREF[15]:   FUN_01ed:0323(R),
                                                                        FUN_01ed:0348(R),
                                                                        FUN_0715:074a(RW),
                                                                        FUN_0715:0761(R),
                                                                        FUN_0715:0765(W),
                                                                        FUN_0803:0803(R),
                                                                        FUN_0803:0807(W),
                                                                        FUN_0803:081f(R),
                                                                        FUN_0803:08c1(R),
                                                                        FUN_0803:08c5(W),
                                                                        FUN_08f9:093b(RW),
                                                                        FUN_09ee:0a18(R),
                                                                        FUN_0ac0:0ae8(W),
                                                                        FUN_0ac0:0aff(R),
                                                                        FUN_0ac0:0b01(W)
0020 00             ??          00h

                    DAT_0021                                XREF[14]:   FUN_01ed:035d(R),
                                                                        FUN_01ed:036b(R),
                                                                        FUN_0715:0767(RW),
                                                                        FUN_0715:0785(RW),
                                                                        FUN_0715:0787(R),
                                                                        FUN_0803:0840(R),
                                                                        FUN_08f9:0917(R),
                                                                        FUN_08f9:0931(RW),
                                                                        FUN_08f9:0933(R),
                                                                        FUN_08f9:0939(W),
                                                                        FUN_09ee:0a32(R),
                                                                        FUN_0ac0:0b0f(W),
                                                                        FUN_0ac0:0b26(R),
                                                                        FUN_0ac0:0b28(W)
0021 00             ??          00h

                    DAT_0022                                XREF[9]:    FUN_0715:07aa(W),
                                                                        FUN_0803:085a(R),
                                                                        FUN_08f9:0925(RW),
                                                                        FUN_08f9:0927(R),
                                                                        FUN_08f9:092d(W),
                                                                        FUN_09ee:0a4c(R),
                                                                        FUN_0ac0:0b36(W),
                                                                        FUN_0ac0:0b4d(R),
                                                                        FUN_0ac0:0b4f(W)
0022 00             ??          00h
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                    DAT_0023                                XREF[10]:   FUN_0715:07a7(W),
                                                                        FUN_0715:07d2(RW),
                                                                        FUN_0803:086e(R),
                                                                        FUN_08f9:090f(RW),
                                                                        FUN_08f9:0911(R),
                                                                        FUN_08f9:0915(W),
                                                                        FUN_09ee:0a66(R),
                                                                        FUN_0ac0:0b5d(W),
                                                                        FUN_0ac0:0b74(R),
                                                                        FUN_0ac0:0b76(W)
0023 00             ??          00h
                    DAT_0024                                XREF[12]:   FUN_01ed:02ef(R),
                                                                        FUN_01ed:0302(R),
                                                                        FUN_0715:0717(W),
                                                                        FUN_0715:07fa(RW),
                                                                        FUN_0803:0894(R),
                                                                        FUN_08f9:0905(RW),
                                                                        FUN_08f9:0907(R),
                                                                        FUN_08f9:090b(W),
                                                                        FUN_09ee:0a80(R),
                                                                        FUN_0ac0:0b84(W),
                                                                        FUN_0ac0:0b9b(R),
                                                                        FUN_0ac0:0b9d(W)
0024 00             undefined1  00h
                    DAT_0025                                XREF[13]:   FUN_01ed:02ef(R),
                                                                        FUN_01ed:0302(R),
                                                                        FUN_0715:0717(W),
                                                                        FUN_0715:0800(W),
                                                                        FUN_0803:08af(R),
                                                                        FUN_08f9:08fb(RW),
                                                                        FUN_08f9:08fd(R),
                                                                        FUN_08f9:0901(W),
                                                                        FUN_09ee:0a9a(R),
                                                                        FUN_09ee:0aa8(R),
                                                                        FUN_0ac0:0bab(W),
                                                                        FUN_0ac0:0bc2(R),
                                                                        FUN_0ac0:0bc4(W)
0025 00             undefined1  00h
                    DAT_0026                                XREF[16]:   FUN_0715:0726(W),
                                                                        FUN_0715:074c(RW),
                                                                        FUN_0715:074e(R),
                                                                        FUN_0715:0755(W),
                                                                        FUN_0715:0790(R),
                                                                        FUN_0803:0811(W),
                                                                        FUN_0803:0833(RW),
                                                                        FUN_0803:0835(R),
                                                                        FUN_0803:083c(W),
                                                                        FUN_0803:0842(R),
                                                                        FUN_08f9:0920(R),
                                                                        FUN_08f9:093d(RW),
                                                                        FUN_08f9:093f(R),
                                                                        FUN_08f9:0945(W),
                                                                        FUN_09ee:0a0a(R),
                                                                        FUN_0ac0:0ada(W)
0026 00             ??          00h
0027 00             ??          00h
0028 00             ??          00h
0029 00             ??          00h
002a 00             ??          00h
002b 00             ??          00h
002c 00             ??          00h
002d 00             ??          00h
002e 00             ??          00h
002f 00             ??          00h
0030 00             ??          00h
0031 00             ??          00h
0032 00             ??          00h
0033 00             ??          00h
0034 00             ??          00h
0035 00             ??          00h
0036 00             ??          00h
0037 00             ??          00h
0038 00             ??          00h
0039 00             ??          00h
003a 00             ??          00h
003b 00             ??          00h
003c 00             ??          00h
003d 00             ??          00h
003e 00             ??          00h
003f 00             ??          00h
0040 00             ??          00h
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```
0041 00             ??          00h
0042 00             ??          00h

                    DAT_0043                                XREF[1]:    Read_Write_Port_C:04bc(R)
0043 00             undefined1  00h

                    DAT_0044                                XREF[1]:    Read_Write_Port_C:04bc(R)
0044 00             undefined1  00h

                    DAT_0045                                XREF[3]:    RESET:0166(W),
                                                                        Read_Write_Port_C:04b4(R),
                                                                        Read_Write_Port_C:04c8(R)
0045 00             undefined1  00h

                    PortC_ValueToWrite                      XREF[5]:    RESET:0166(W),
                                                                        Something_RAM_050_051:0496(R),
                                                                        Something_RAM_050_051:0498(W),
                                                                        Read_Write_Port_C:04ab(R),
                                                                        Read_Write_Port_C:04c8(R)
0046 00             undefined1  00h

                    DAT_0047                                XREF[3]:    FUN_0715:0728(R),
                                                                        FUN_0803:0868(W),
                                                                        FUN_0803:087c(RW)
0047 00             ??          00h

                    DAT_0048                                XREF[4]:    FUN_0715:072c(R),
                                                                        FUN_0803:086c(W),
                                                                        FUN_0803:0876(RW),
                                                                        FUN_0803:0878(R)
0048 00             ??          00h

                    DAT_0049                                XREF[2]:    FUN_0715:07ac(R),
                                                                        FUN_0803:08bb(W)
0049 00             ??          00h

                    DAT_004a                                XREF[2]:    FUN_0715:07b0(R),
                                                                        FUN_0803:08bf(W)
004a 00             ??          00h

                    DAT_004b                                XREF[17]:   RESET:0170(W), RESET:017e(W),
                                                                        RESET:018c(W),
                                                                        Something_RAM_050_051:048a(R),
                                                                        FUN_0715:071e(W),
                                                                        FUN_0715:0740(R),
                                                                        FUN_0715:0769(W),
                                                                        FUN_0715:077f(R),
                                                                        FUN_0715:07b6(W),
                                                                        FUN_0715:07cc(R),
                                                                        FUN_0715:07de(W),
                                                                        FUN_0715:07f4(R),
                                                                        FUN_0803:0815(W),
                                                                        FUN_0803:082b(R),
                                                                        FUN_0803:088e(W),
                                                                        FUN_0803:08a4(R),
                                                                        FUN_0803:08aa(RW)
004b 00             ??          00h

                    DAT_004c                                XREF[24]:   RESET:0174(W), RESET:0182(W),
                                                                        RESET:0190(W),
                                                                        Something_RAM_050_051:0490(R),
                                                                        FUN_0715:0722(W),
                                                                        FUN_0715:073a(R),
                                                                        FUN_0715:0746(W),
                                                                        FUN_0715:0751(RW),
                                                                        FUN_0715:0753(RW),
                                                                        FUN_0715:076d(W),
                                                                        FUN_0715:0779(R),
                                                                        FUN_0715:0796(W),
                                                                        FUN_0715:07ba(W),
                                                                        FUN_0715:07c6(R),
                                                                        FUN_0715:07e2(W),
                                                                        FUN_0715:07ee(R),
                                                                        FUN_0803:0819(W),
                                                                        FUN_0803:0825(R),
                                                                        FUN_0803:0831(W),
                                                                        FUN_0803:0838(RW), [more]
004c 00             ??          00h
```

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                    DAT_004d                                XREF[29]:   FUN_0715:072a(W),
                                                                        FUN_0715:0730(R),
                                                                        FUN_0715:073e(R),
                                                                        FUN_0715:0742(W),
                                                                        FUN_0715:075b(W),
                                                                        FUN_0715:076f(R),
                                                                        FUN_0715:077d(R),
                                                                        FUN_0715:0781(W),
                                                                        FUN_0715:079c(W),
                                                                        FUN_0715:07ae(W),
                                                                        FUN_0715:07bc(R),
                                                                        FUN_0715:07ca(R),
                                                                        FUN_0715:07ce(W),
                                                                        FUN_0715:07d8(W),
                                                                        FUN_0715:07e4(R),
                                                                        FUN_0715:07f2(R),
                                                                        FUN_0715:07f6(W),
                                                                        FUN_0803:0809(W),
                                                                        FUN_0803:0829(R),
                                                                        FUN_0803:082d(W), [more]
004d 00             ??          00h

                    DAT_004e                                XREF[31]:   FUN_0715:072e(W),
                                                                        FUN_0715:0734(R),
                                                                        FUN_0715:0738(R),
                                                                        FUN_0715:073c(W),
                                                                        FUN_0715:075f(W),
                                                                        FUN_0715:0773(R),
                                                                        FUN_0715:0777(R),
                                                                        FUN_0715:077b(W),
                                                                        FUN_0715:07a0(W),
                                                                        FUN_0715:07b2(W),
                                                                        FUN_0715:07c0(R),
                                                                        FUN_0715:07c4(R),
                                                                        FUN_0715:07c8(W),
                                                                        FUN_0715:07dc(W),
                                                                        FUN_0715:07e8(R),
                                                                        FUN_0715:07ec(R),
                                                                        FUN_0715:07f0(W),
                                                                        FUN_0803:080b(W),
                                                                        FUN_0803:0823(R),
                                                                        FUN_0803:0827(W), [more]
004e 00             ??          00h

                    DAT_004f                                XREF[11]:   FUN_01ed:02e9(W),
                                                                        FUN_01ed:02fc(R),
                                                                        FUN_01ed:030e(RW),
                                                                        FUN_01ed:0310(R),
                                                                        FUN_01ed:0314(RW),
                                                                        Something_RAM_050_051:047b(W),
                                                                        Something_RAM_050_051:0492(R),
                                                                        Something_RAM_050_051:0494(RW),
                                                                        FUN_0803:080d(W),
                                                                        FUN_0803:081b(RW),
                                                                        FUN_0803:081d(R)
004f 00             ??          00h

                    DAT_0050                                XREF[2]:    Something_RAM_050_051:0483(W),
                                                                        Something_RAM_050_051:049c(RW)
0050 00             ??          00h

                    DAT_0051                                XREF[20]:   FUN_01ed:02b0(W),
                                                                        FUN_01ed:02bc(R),
                                                                        FUN_01ed:02c4(RW),
                                                                        FUN_01ed:02ce(W),
                                                                        FUN_01ed:02da(R),
                                                                        FUN_01ed:02e2(RW),
                                                                        FUN_01ed:02ed(W),
                                                                        FUN_01ed:0300(R),
                                                                        FUN_01ed:0316(RW),
                                                                        FUN_01ed:0318(R),
                                                                        Read_CHR_OCHR:0442(W),
                                                                        Read_CHR_OCHR:044e(R),
                                                                        Read_CHR_OCHR:0456(RW),
                                                                        Read_CHR_OCHR:0460(W),
                                                                        Read_CHR_OCHR:046c(R),
                                                                        Read_CHR_OCHR:0474(RW),
                                                                        Something_RAM_050_051:047f(W),
                                                                        Something_RAM_050_051:049a(R),
                                                                        Something_RAM_050_051:04a0(RW),
                                                                        Something_RAM_050_051:04a2(R)
0051 00             ??          00h
```

```
                    DAT_0052                                XREF[37]:   FUN_01b4:01ea(W),
                                                                        FUN_01ed:0289(W),
                                                                        FUN_01ed:02a1(W),
                                                                        FUN_01ed:032b(W),
                                                                        FUN_01ed:0335(W),
                                                                        Read_CHR_OCHR:03e9(W),
                                                                        Read_CHR_OCHR:0429(W),
                                                                        FUN_0715:0732(W),
                                                                        FUN_0715:0759(R),
                                                                        FUN_0715:0771(W),
                                                                        FUN_0715:079a(R),
                                                                        FUN_0715:07be(W),
                                                                        FUN_0715:07d6(R),
                                                                        FUN_0715:07e6(W),
                                                                        FUN_0803:0896(W),
                                                                        FUN_0803:0898(RW),
                                                                        FUN_0ac0:0afa(W),
                                                                        FUN_0ac0:0afd(R),
                                                                        FUN_0ac0:0b21(W),
                                                                        FUN_0ac0:0b24(R), [more]
0052 00             ??          00h

                    DAT_0053                                XREF[15]:   FUN_01b4:01e4(W),
                                                                        FUN_01ed:0279(W),
                                                                        FUN_01ed:02a5(W),
                                                                        FUN_01ed:032f(W),
                                                                        FUN_01ed:0339(W),
                                                                        Read_CHR_OCHR:03e7(W),
                                                                        Read_CHR_OCHR:0419(W),
                                                                        FUN_0715:0736(W),
                                                                        FUN_0715:075d(R),
                                                                        FUN_0715:0775(W),
                                                                        FUN_0715:079e(R),
                                                                        FUN_0715:07c2(W),
                                                                        FUN_0715:07da(R),
                                                                        FUN_0715:07ea(W),
                                                                        FUN_0715:07fe(R)
0053 00             ??          00h

                    DAT_0054                                XREF[9]:    FUN_01b4:01dc(W),
                                                                        FUN_01ed:026b(W),
                                                                        FUN_01ed:02dc(W),
                                                                        FUN_01ed:0346(W),
                                                                        Read_CHR_OCHR:03e5(W),
                                                                        Read_CHR_OCHR:03ef(R),
                                                                        Read_CHR_OCHR:03f3(W),
                                                                        Read_CHR_OCHR:040b(W),
                                                                        Read_CHR_OCHR:046e(W)
0054 00             undefined1  00h

                    DAT_0055                                XREF[11]:   FUN_01b4:01d6(W),
                                                                        FUN_01ed:020e(W),
                                                                        FUN_01ed:025b(W),
                                                                        FUN_01ed:02a7(RW),
                                                                        FUN_01ed:02dc(W),
                                                                        FUN_01ed:0320(RW),
                                                                        FUN_01ed:0355(W),
                                                                        Read_CHR_OCHR:03d4(W),
                                                                        Read_CHR_OCHR:03ef(R),
                                                                        Read_CHR_OCHR:046e(W),
                                                                        Something_RAM_050_051:048d(RW)
0055 00             undefined1  00h

                    DAT_0056                                XREF[6]:    FUN_01b4:01ce(W),
                                                                        FUN_01ed:0210(W),
                                                                        FUN_01ed:024b(W),
                                                                        FUN_01ed:0312(W),
                                                                        FUN_01ed:0357(W),
                                                                        Read_CHR_OCHR:03c4(W)
0056 00             undefined1  00h

                    DAT_0057                                XREF[6]:    FUN_01b4:01c8(W),
                                                                        FUN_01ed:023e(W),
                                                                        FUN_01ed:02fe(W),
                                                                        FUN_01ed:031e(RW),
                                                                        FUN_01ed:035b(W),
                                                                        Read_CHR_OCHR:03b7(W)
0057 00             undefined1  00h
```

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                    DAT_0058                                XREF[9]:    FUN_01b4:01c0(W),
                                                                        FUN_01ed:0207(W),
                                                                        FUN_01ed:022c(W),
                                                                        FUN_01ed:02be(W),
                                                                        FUN_01ed:0312(W),
                                                                        FUN_01ed:0369(W),
                                                                        Read_CHR_OCHR:03a5(W),
                                                                        Read_CHR_OCHR:0450(W),
                                                                        Something_RAM_050_051:0486(RW)
0058 00             undefined1 00h

                    DAT_0059                                XREF[10]:   FUN_01b4:01ba(W),
                                                                        FUN_01ed:0207(W),
                                                                        FUN_01ed:021d(W),
                                                                        FUN_01ed:02be(W),
                                                                        FUN_01ed:02fe(W),
                                                                        FUN_01ed:031c(RW),
                                                                        FUN_01ed:0378(W),
                                                                        Read_CHR_OCHR:0396(W),
                                                                        Read_CHR_OCHR:0450(W),
                                                                        Something_RAM_050_051:0486(RW)
0059 00             undefined1 00h

                    PortC_SavedValue                        XREF[18]:   FUN_01ed:02ac(W),
                                                                        FUN_01ed:02b2(R),
                                                                        FUN_01ed:02c0(RW),
                                                                        FUN_01ed:02c2(RW),
                                                                        FUN_01ed:02ca(W),
                                                                        FUN_01ed:02d0(R),
                                                                        FUN_01ed:02de(RW),
                                                                        FUN_01ed:02e0(RW),
                                                                        Read_CHR_OCHR:043e(W),
                                                                        Read_CHR_OCHR:0444(R),
                                                                        Read_CHR_OCHR:0452(RW),
                                                                        Read_CHR_OCHR:0454(RW),
                                                                        Read_CHR_OCHR:045c(W),
                                                                        Read_CHR_OCHR:0462(R),
                                                                        Read_CHR_OCHR:0470(RW),
                                                                        Read_CHR_OCHR:0472(RW),
                                                                        Read_Write_Port_C:04a9(W),
                                                                        Read_Write_Port_C:04d3(R)
005a 00             ??          00h

                    RAM_005b                                XREF[3]:    RESET:011a(W),
                                                                        TIMER_INTERRUPT:08da(RW),
                                                                        TIMER_INTERRUPT:08e3(W)
005b 00             ??          00h

                    RAM_005c                                XREF[3]:    RESET:011e(W),
                                                                        TIMER_INTERRUPT:08e5(RW),
                                                                        TIMER_INTERRUPT:08eb(W)
005c 00             ??          00h

                    RAM_005D                                XREF[3]:    RESET:0122(W),
                                                                        TIMER_INTERRUPT:08ed(RW),
                                                                        TIMER_INTERRUPT:08f3(W)
005d 00             ??          00h

                    DAT_005e                                XREF[1]:    FUN_0948:0980(R)
005e 00             ??          00h

                    DAT_005f                                XREF[1]:    FUN_0948:097c(R)
005f 00             ??          00h

                    DAT_0060                                XREF[3]:    FUN_06b2:06b5(R),
                                                                        FUN_06b2:06b9(W),
                                                                        FUN_0948:0978(R)
0060 00             ??          00h

                    DAT_0061                                XREF[2]:    FUN_0948:0974(R),
                                                                        FUN_0948:0982(W)
0061 00             ??          00h

                    DAT_0062                                XREF[2]:    FUN_0948:0970(R),
                                                                        FUN_0948:097e(W)
0062 00             ??          00h

                    DAT_0063                                XREF[2]:    FUN_0948:096c(R),
                                                                        FUN_0948:097a(W)
0063 00             ??          00h

                    DAT_0064                                XREF[2]:    FUN_0948:0968(R),
                                                                        FUN_0948:0976(W)
0064 00             ??          00h
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                        DAT_0065                                XREF[2]:    FUN_0948:0964(R),
                                                                            FUN_0948:0972(W)
0065 00                     ??          00h

                        DAT_0066                                XREF[2]:    FUN_0948:0960(R),
                                                                            FUN_0948:096e(W)
0066 00                     ??          00h

                        DAT_0067                                XREF[2]:    FUN_0948:095c(R),
                                                                            FUN_0948:096a(W)
0067 00                     ??          00h

                        DAT_0068                                XREF[2]:    FUN_0948:0958(R),
                                                                            FUN_0948:0966(W)
0068 00                     ??          00h

                        DAT_0069                                XREF[2]:    FUN_0948:0954(R),
                                                                            FUN_0948:0962(W)
0069 00                     ??          00h

                        DAT_006a                                XREF[2]:    FUN_0948:0950(R),
                                                                            FUN_0948:095e(W)
006a 00                     ??          00h

                        DAT_006b                                XREF[2]:    FUN_0948:094c(R),
                                                                            FUN_0948:095a(W)
006b 00                     ??          00h

                        DAT_006c                                XREF[2]:    FUN_0948:0948(R),
                                                                            FUN_0948:0956(W)
006c 00                     ??          00h

                        DAT_006d                                XREF[1]:    FUN_0948:0952(W)
006d 00                     ??          00h

                        DAT_006e                                XREF[1]:    FUN_0948:094e(W)
006e 00                     ??          00h

                        DAT_006f                                XREF[2]:    FUN_06b2:06b2(R),
                                                                            FUN_0948:094a(W)
006f 00                     ??          00h

                        PortD_SavedValue                        XREF[3]:    Read_Port_D_Update_CLR:09d6(W),
                                                                            Read_Port_D_Update_CLR:09de(R),
                                                                            Read_Port_D_Update_CLR:09e1(R)
0070 00                     ??          00h

                        RAM_0071                                XREF[3]:    RESET:0126(W),
                                                                            Read_Port_D:0985(RW),
                                                                            Read_Port_D:098b(W)
0071 00                     ??          00h

                        DAT_0072                                XREF[3]:    Read_Port_D:098d(R),
                                                                            Read_Port_D:0993(W),
                                                                            Read_Port_D:09b2(RW)
0072 00                     ??          00h

                        DAT_0073                                XREF[3]:    Read_Port_D:099e(R),
                                                                            Read_Port_D:09a4(W),
                                                                            Read_Port_D:09b7(RW)
0073 00                     ??          00h
0074 00                     ??          00h
0075 00                     ??          00h
0076 00                     ??          00h
0077 00                     ??          00h
0078 00                     ??          00h
0079 00                     ??          00h
007a 00                     ??          00h
007b 00                     ??          00h
007c 00                     ??          00h
007d 00                     ??          00h
007e 00                     ??          00h
007f 00                     ??          00h

                        RAM ENDS AT 0x007F
                        *****
                        ROM START AT 0x0080
                        ENDS AT 0x0FFF
                        DAT_0080                                XREF[2]:    FUN_0715:071c(R),
                                                                            FUN_0803:0813(R)
0080 02                     ??          02h
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                DAT_0081                                XREF[2]:    FUN_0715:0720(R),
                                                                    FUN_0803:0817(R)
0081 da             ??          DAh

                DAT_0082                                XREF[1]:    FUN_0715:07b4(R)
0082 0e             ??          0Eh

                DAT_0083                                XREF[1]:    FUN_0715:07b8(R)
0083 10             ??          10h
0084 07             ??          07h
0085 bb             ??          BBh
0086 00             ??          00h
0087 10             ??          10h
0088 20             ??          20h
0089 30             ??          30h    0
008a 40             ??          40h    @
008b 50             ??          50h    P
008c 60             ??          60h    `
008d 70             ??          70h    p

                DAT_008e                                XREF[1]:    RESET:0113(W)
008e 00             undefined1  00h

                DAT_008f                                XREF[1]:    RESET:0113(W)
008f 10             undefined1  10h
0090 20             ??          20h
0091 30             ??          30h    0
0092 40             ??          40h    @
0093 50             ??          50h    P
0094 60             ??          60h    `
0095 70             ??          70h    p
0096 00             ??          00h
0097 10             ??          10h
0098 20             ??          20h
0099 30             ??          30h    0
009a 40             ??          40h    @
009b 50             ??          50h    P
009c 60             ??          60h    `
009d 70             ??          70h    p
009e 00             ??          00h
009f 10             ??          10h
00a0 20             ??          20h
00a1 30             ??          30h    0
00a2 40             ??          40h    @
00a3 50             ??          50h    P
00a4 60             ??          60h    `
00a5 70             ??          70h    p
00a6 00             ??          00h
00a7 10             ??          10h
00a8 20             ??          20h
00a9 30             ??          30h    0
00aa 40             ??          40h    @
00ab 50             ??          50h    P
00ac 60             ??          60h    `
00ad 70             ??          70h    p
00ae 00             ??          00h
00af 10             ??          10h
00b0 20             ??          20h
00b1 30             ??          30h    0
00b2 40             ??          40h    @
00b3 50             ??          50h    P
00b4 60             ??          60h    `
00b5 70             ??          70h    p
00b6 00             ??          00h
00b7 10             ??          10h
00b8 20             ??          20h
00b9 30             ??          30h    0
00ba 40             ??          40h    @
00bb 50             ??          50h    P
00bc 60             ??          60h    `
00bd 70             ??          70h    p
00be 00             ??          00h
00bf 10             ??          10h
00c0 20             ??          20h
00c1 30             ??          30h    0
00c2 40             ??          40h    @
00c3 50             ??          50h    P
00c4 60             ??          60h    `
00c5 70             ??          70h    p
00c6 00             ??          00h
00c7 10             ??          10h
00c8 20             ??          20h
00c9 30             ??          30h    0
00ca 40             ??          40h    @
```

```
00cb 50             ??          50h    P
00cc 60             ??          60h    `
00cd 70             ??          70h    p
00ce 00             ??          00h
00cf 10             ??          10h
00d0 20             ??          20h
00d1 30             ??          30h    0
00d2 40             ??          40h    @
00d3 50             ??          50h    P
00d4 60             ??          60h    `
00d5 70             ??          70h    p
00d6 00             ??          00h
00d7 10             ??          10h
00d8 20             ??          20h
00d9 30             ??          30h    0
00da 40             ??          40h    @
00db 50             ??          50h    P
00dc 60             ??          60h    `
00dd 70             ??          70h    p
00de 00             ??          00h
00df 10             ??          10h
00e0 20             ??          20h
00e1 30             ??          30h    0
00e2 40             ??          40h    @
00e3 50             ??          50h    P
00e4 60             ??          60h    `
00e5 70             ??          70h    p
00e6 00             ??          00h
00e7 10             ??          10h
00e8 20             ??          20h
00e9 30             ??          30h    0
00ea 40             ??          40h    @
00eb 50             ??          50h    P
00ec 60             ??          60h    `
00ed 70             ??          70h    p
00ee 00             ??          00h
00ef 10             ??          10h
00f0 20             ??          20h
00f1 30             ??          30h    0
00f2 40             ??          40h    @
00f3 50             ??          50h    P
00f4 60             ??          60h    `
00f5 70             ??          70h    p
00f6 00             ??          00h
00f7 10             ??          10h
00f8 20             ??          20h
00f9 30             ??          30h    0
00fa 40             ??          40h    @
00fb 50             ??          50h    P
00fc 60             ??          60h    `
00fd 70             ??          70h    p

                    RAM_00fe                                XREF[9]:    RESET:013c(W), RESET:0161(W),
                                                                        RESET:016b(W), RESET:0176(W),
                                                                        RESET:0179(W), RESET:0184(W),
                                                                        RESET:0187(W), RESET:0192(W),
                                                                        RESET:019e(W)
00fe 00 10          undefined2  0010h
0100 20             ??          20h
0101 30             ??          30h    0
0102 40             ??          40h    @
0103 50             ??          50h    P
0104 60             ??          60h    `
0105 70             ??          70h    p
0106 00             ??          00h
0107 00             ??          00h
0108 00             ??          00h
0109 00             ??          00h
010a 00             ??          00h
010b 00             ??          00h
010c 00             ??          00h
010d 00             ??          00h
010e 00             ??          00h
010f 00             ??          00h

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined RESET()
 undefined          A:1           <RETURN>
                    RESET                                   XREF[2]:    Read_Bytes_from_Port_A:0649(c),
                                                                        0ffe(*)
0110 9c             RSP
0111 ae 7f          LDX         #0x7f
```

```
                    LAB_0113                                XREF[1]:    0116(j)
0113 6f 10          CLR         0x10,X=>DAT_008f                        = 10h
0115 5a             DECX
0116 2a fb          BPL         LAB_0113
0118 a6 10          LDA         #0x10
011a b7 5b          STA         RAM_005b
011c a6 c8          LDA         #0xc8
011e b7 5c          STA         RAM_005c
0120 a6 02          LDA         #0x2
0122 b7 5d          STA         RAM_005D
0124 a6 80          LDA         #0x80
0126 b7 71          STA         RAM_0071
0128 3f 04          CLR         DDRA
012a a6 2f          LDA         #0x2f
012c b7 01          STA         PORTB
012e a6 ff          LDA         #0xff
0130 b7 05          STA         DDRB
0132 a6 f8          LDA         #0xf8
0134 b7 02          STA         PORTC
0136 a6 ff          LDA         #0xff
0138 b7 06          STA         DDRC
013a 3f 07          CLR         DDRD
013c cd 0a c0       JSR         FUN_0ac0                                = 0010h
                                                                        undefined FUN_0ac0()
013f a6 35          LDA         #0x35
0141 b7 09          STA         TCR_Timer_Control_Register              = 0.0
0143 a6 03          LDA         #0x3
0145 b7 08          STA         TDR_Timer_Data_Register
0147 a6 7f          LDA         #0x7f
0149 b7 0a          STA         MR_Misc_register
014b 9a             CLI
014c 3f 1a          CLR         RAM_001a

                    LAB_014e                                XREF[2]:    015f(j), 01b1(j)
014e a6 ff          LDA         #0xff
0150 b7 1f          STA         RAM_001f
0152 9b             SEI
0153 18 01          BSET        0x4,PORTB
0155 19 01          BCLR        0x4,PORTB
0157 9a             CLI

                    LAB_0158                                XREF[1]:    015d(j)
0158 0e 03 06       BRSET       0x7,PORTD,LAB_0161
015b 3a 1f          DEC         RAM_001f
015d 26 f9          BNE         LAB_0158
015f 20 ed          BRA         LAB_014e

                    LAB_0161                                XREF[2]:    0158(j), 01a2(j)
0161 cd 04 d8       JSR         Read_Bytes_from_Port_A                  = 0010h
                                                                        undefinedRead_Bytes_from_Port_A()
0164 ae 1f          LDX         #0x1f

                    LAB_0166                                XREF[1]:    0169(j)
0166 6f 27          CLR         0x27,X=>PortC_ValueToWrite
0168 5a             DECX
0169 2a fb          BPL         LAB_0166
016b cd 01 b4       JSR         FUN_01b4                                = 0010h
                                                                        undefined FUN_01b4()
016e a6 40          LDA         #0x40
0170 b7 4b          STA         DAT_004b
0172 a6 04          LDA         #0x4
0174 b7 4c          STA         DAT_004c
0176 cd 04 79       JSR         Something_RAM_050_051                   = 0010h
                                                                        undefinedSomething_RAM_050_051()
0179 cd 01 ed       JSR         FUN_01ed                                = 0010h
                                                                        undefined FUN_01ed()
017c a6 20          LDA         #0x20
017e b7 4b          STA         DAT_004b
0180 a6 02          LDA         #0x2
0182 b7 4c          STA         DAT_004c
0184 cd 04 79       JSR         Something_RAM_050_051                   = 0010h
                                                                        undefinedSomething_RAM_050_051()
0187 cd 03 7b       JSR         Read_CHR_OCHR                           = 0010h
                                                                        undefinedRead_CHR_OCHR()
018a a6 10          LDA         #0x10
018c b7 4b          STA         DAT_004b
018e a6 01          LDA         #0x1
0190 b7 4c          STA         DAT_004c
0192 cd 04 79       JSR         Something_RAM_050_051                   = 0010h
                                                                        undefinedSomething_RAM_050_051()
0195 1b 01          BCLR        0x5,PORTB

                    LAB_0197                                XREF[1]:    019b(j)
0197 b6 08          LDA         TDR_Timer_Data_Register
```

```
0199 a1 03          CMP         #0x3
019b 26 fa          BNE         LAB_0197
019d 9b             SEI
019e cd 04 a7       JSR         Read_Write_Port_C                       = 0010h
                                                                        voidRead_Write_Port_C(void)
01a1 9a             CLI
01a2 0e 03 bc       BRSET       0x7,PORTD,LAB_0161
01a5 ae 20          LDX         #0x20

                    LAB_01a7                                    XREF[1]:    01af(j)
01a7 9f             TXA
01a8 ae 0a          LDX         #0xa

                    LAB_01aa                                    XREF[1]:    01ab(j)
01aa 5a             DECX
01ab 26 fd          BNE         LAB_01aa
01ad 97             TAX
01ae 5a             DECX
01af 26 f6          BNE         LAB_01a7
01b1 cc 01 4e       JMP         LAB_014e

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_01b4()
 undefined            A:1           <RETURN>
                    FUN_01b4                                    XREF[1]:    RESET:016b(c)
01b4 be 13          LDX         RAM_0013
01b6 58             ASLX
01b7 d6 0d 22       LDA         DAT_0d22,X
01ba b7 59          STA         DAT_0059
01bc 5c             INCX
01bd d6 0d 22       LDA         DAT_0d22,X
01c0 b7 58          STA         DAT_0058
01c2 be 12          LDX         RAM_0012
01c4 58             ASLX
01c5 d6 0d 22       LDA         DAT_0d22,X
01c8 b7 57          STA         DAT_0057
01ca 5c             INCX
01cb d6 0d 22       LDA         DAT_0d22,X
01ce b7 56          STA         DAT_0056
01d0 be 11          LDX         RAM_0011
01d2 58             ASLX
01d3 d6 0d 22       LDA         DAT_0d22,X
01d6 b7 55          STA         DAT_0055
01d8 5c             INCX
01d9 d6 0d 22       LDA         DAT_0d22,X
01dc b7 54          STA         DAT_0054
01de be 10          LDX         RAM_0010
01e0 58             ASLX
01e1 d6 0d 22       LDA         DAT_0d22,X
01e4 b7 53          STA         DAT_0053
01e6 5c             INCX
01e7 d6 0d 22       LDA         DAT_0d22,X
01ea b7 52          STA         DAT_0052
01ec 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_01ed()
 undefined            A:1           <RETURN>
                    FUN_01ed                                    XREF[1]:    RESET:0179(c)
01ed 03 1b 09       BRCLR       0x1,DAT_001b,LAB_01f9
01f0 04 1b 03       BRSET       0x2,DAT_001b,LAB_01f6
01f3 cc 02 e7       JMP         LAB_02e7

                    LAB_01f6                                    XREF[1]:    01f0(j)
01f6 cc 03 23       JMP         LAB_0323

                    LAB_01f9                                    XREF[1]:    01ed(j)
01f9 b6 1d          LDA         RAM_001d
01fb a4 03          AND         #0x3
01fd 27 03          BEQ         LAB_0202
01ff cc 02 aa       JMP         LAB_02aa

                    LAB_0202                                    XREF[1]:    01fd(j)
0202 07 1b 0e       BRCLR       0x3,DAT_001b,LAB_0213
0205 ae 07          LDX         #0x7

                    LAB_0207                                    XREF[1]:    020a(j)
0207 6f 52          CLR         0x52,X=>DAT_0059
0209 5a             DECX
020a 2a fb          BPL         LAB_0207
020c a6 08          LDA         #0x8
```

```
020e b7 55          STA       DAT_0055
0210 b7 56          STA       DAT_0056
0212 81             RTS

                LAB_0213                                XREF[1]:    0202(j)
0213 b6 16          LDA       RAM_0016
0215 a4 07          AND       #0x7
0217 ab 10          ADD       #0x10
0219 97             TAX
021a d6 0c f8       LDA       DAT_0cf8,X
021d b7 59          STA       DAT_0059
021f b6 16          LDA       RAM_0016
0221 44             LSRA
0222 44             LSRA
0223 44             LSRA
0224 a4 07          AND       #0x7
0226 ab 10          ADD       #0x10
0228 97             TAX
0229 d6 0c f8       LDA       DAT_0cf8,X
022c b7 58          STA       DAT_0058
022e be 16          LDX       RAM_0016
0230 b6 15          LDA       RAM_0015
0232 58             ASLX
0233 49             ROLA
0234 58             ASLX
0235 49             ROLA
0236 a4 07          AND       #0x7
0238 ab 10          ADD       #0x10
023a 97             TAX
023b d6 0c f8       LDA       DAT_0cf8,X
023e b7 57          STA       DAT_0057
0240 b6 15          LDA       RAM_0015
0242 44             LSRA
0243 a4 07          AND       #0x7
0245 ab 10          ADD       #0x10
0247 97             TAX
0248 d6 0c f8       LDA       DAT_0cf8,X
024b b7 56          STA       DAT_0056
024d b6 15          LDA       RAM_0015
024f 44             LSRA
0250 44             LSRA
0251 44             LSRA
0252 44             LSRA
0253 a4 07          AND       #0x7
0255 ab 10          ADD       #0x10
0257 97             TAX
0258 d6 0c f8       LDA       DAT_0cf8,X
025b b7 55          STA       DAT_0055
025d be 15          LDX       RAM_0015
025f b6 14          LDA       RAM_0014
0261 58             ASLX
0262 49             ROLA
0263 a4 07          AND       #0x7
0265 ab 10          ADD       #0x10
0267 97             TAX
0268 d6 0c f8       LDA       DAT_0cf8,X
026b b7 54          STA       DAT_0054
026d b6 14          LDA       RAM_0014
026f 44             LSRA
0270 44             LSRA
0271 a4 07          AND       #0x7
0273 ab 10          ADD       #0x10
0275 97             TAX
0276 d6 0c f8       LDA       DAT_0cf8,X
0279 b7 53          STA       DAT_0053
027b b6 14          LDA       RAM_0014
027d 48             ASLA
027e 49             ROLA
027f 49             ROLA
0280 49             ROLA
0281 a4 07          AND       #0x7
0283 ab 10          ADD       #0x10
0285 97             TAX
0286 d6 0c f8       LDA       DAT_0cf8,X
0289 b7 52          STA       DAT_0052
028b 5f             CLRX
028c a6 77          LDA       #0x77

                LAB_028e                                XREF[1]:    0299(j)
028e e1 52          CMP       0x52,X
0290 26 09          BNE       LAB_029b
0292 6f 52          CLR       0x52,X
0294 5c             INCX
0295 a3 07          CPX       #0x7
0297 27 02          BEQ       LAB_029b
```

```
0299 20 f3          BRA       LAB_028e

                    LAB_029b                                XREF[2]:    0290(j), 0297(j)
029b 08 1b 01       BRSET     0x4,DAT_001b,LAB_029f
029e 81             RTS

                    LAB_029f                                XREF[1]:    029b(j)
029f a6 4f          LDA       #0x4f
02a1 b7 52          STA       DAT_0052
02a3 a6 66          LDA       #0x66
02a5 b7 53          STA       DAT_0053
02a7 1e 55          BSET      0x7,DAT_0055
02a9 81             RTS

                    LAB_02aa                                XREF[1]:    01ff(j)
02aa b6 16          LDA       RAM_0016
02ac b7 5a          STA       PortC_SavedValue
02ae ae 03          LDX       #0x3
02b0 bf 51          STX       DAT_0051

                    LAB_02b2                                XREF[1]:    02c6(j)
02b2 b6 5a          LDA       PortC_SavedValue
02b4 a4 03          AND       #0x3
02b6 ab 04          ADD       #0x4
02b8 97             TAX
02b9 d6 0c f8       LDA       DAT_0cf8,X
02bc be 51          LDX       DAT_0051
02be e7 56          STA       0x56,X=>DAT_0059
02c0 34 5a          LSR       PortC_SavedValue
02c2 34 5a          LSR       PortC_SavedValue
02c4 3a 51          DEC       DAT_0051
02c6 2a ea          BPL       LAB_02b2
02c8 b6 15          LDA       RAM_0015
02ca b7 5a          STA       PortC_SavedValue
02cc ae 03          LDX       #0x3
02ce bf 51          STX       DAT_0051

                    LAB_02d0                                XREF[1]:    02e4(j)
02d0 b6 5a          LDA       PortC_SavedValue
02d2 a4 03          AND       #0x3
02d4 ab 04          ADD       #0x4
02d6 97             TAX
02d7 d6 0c f8       LDA       DAT_0cf8,X
02da be 51          LDX       DAT_0051
02dc e7 52          STA       0x52,X=>DAT_0055
02de 34 5a          LSR       PortC_SavedValue
02e0 34 5a          LSR       PortC_SavedValue
02e2 3a 51          DEC       DAT_0051
02e4 2a ea          BPL       LAB_02d0
02e6 81             RTS

                    LAB_02e7                                XREF[1]:    01f3(j)
02e7 ae 07          LDX       #0x7
02e9 bf 4f          STX       DAT_004f
02eb ae 03          LDX       #0x3
02ed bf 51          STX       DAT_0051

                    LAB_02ef                                XREF[1]:    031a(j)
02ef ee 22          LDX       0x22,X=>DAT_0025
02f1 58             ASLX
02f2 5c             INCX
02f3 d6 0e 44       LDA       DAT_0e44,X
02f6 ab 10          ADD       #0x10
02f8 97             TAX
02f9 d6 0c f8       LDA       DAT_0cf8,X
02fc be 4f          LDX       DAT_004f
02fe e7 52          STA       0x52,X=>DAT_0059
0300 be 51          LDX       DAT_0051
0302 ee 22          LDX       0x22,X=>DAT_0025
0304 58             ASLX
0305 d6 0e 44       LDA       DAT_0e44,X
0308 ab 10          ADD       #0x10
030a 97             TAX
030b d6 0c f8       LDA       DAT_0cf8,X
030e 3a 4f          DEC       DAT_004f
0310 be 4f          LDX       DAT_004f
0312 e7 52          STA       0x52,X=>DAT_0058
0314 3a 4f          DEC       DAT_004f
0316 3a 51          DEC       DAT_0051
0318 be 51          LDX       DAT_0051
031a 2a d3          BPL       LAB_02ef
031c 1e 59          BSET      0x7,DAT_0059
031e 1e 57          BSET      0x7,DAT_0057
0320 1e 55          BSET      0x7,DAT_0055
0322 81             RTS
```

```
                LAB_0323                                XREF[1]:     01f6(j)
0323 b6 20          LDA         DAT_0020
0325 a1 4f          CMP         #0x4f
0327 25 0a          BCS         LAB_0333
0329 ae 11          LDX         #0x11
032b bf 52          STX         DAT_0052
032d ae 3f          LDX         #0x3f
032f bf 53          STX         DAT_0053
0331 20 08          BRA         LAB_033b

                LAB_0333                                XREF[1]:     0327(j)
0333 ae 6b          LDX         #0x6b
0335 bf 52          STX         DAT_0052
0337 ae 77          LDX         #0x77
0339 bf 53          STX         DAT_0053

                LAB_033b                                XREF[1]:     0331(j)
033b 97             TAX
033c 58             ASLX
033d d6 0e 44       LDA         DAT_0e44,X
0340 ab 10          ADD         #0x10
0342 97             TAX
0343 d6 0c f8       LDA         DAT_0cf8,X
0346 b7 54          STA         DAT_0054
0348 be 20          LDX         DAT_0020
034a 58             ASLX
034b 5c             INCX
034c d6 0e 44       LDA         DAT_0e44,X
034f ab 10          ADD         #0x10
0351 97             TAX
0352 d6 0c f8       LDA         DAT_0cf8,X
0355 b7 55          STA         DAT_0055
0357 3f 56          CLR         DAT_0056
0359 a6 80          LDA         #0x80
035b b7 57          STA         DAT_0057
035d be 21          LDX         DAT_0021
035f 58             ASLX
0360 d6 0e 44       LDA         DAT_0e44,X
0363 ab 10          ADD         #0x10
0365 97             TAX
0366 d6 0c f8       LDA         DAT_0cf8,X
0369 b7 58          STA         DAT_0058
036b be 21          LDX         DAT_0021
036d 58             ASLX
036e 5c             INCX
036f d6 0e 44       LDA         DAT_0e44,X
0372 ab 10          ADD         #0x10
0374 97             TAX
0375 d6 0c f8       LDA         DAT_0cf8,X
0378 b7 59          STA         DAT_0059
037a 81             RTS

                *************************************************************
                *                          FUNCTION                         *
                *************************************************************
                undefined Read_CHR_OCHR()
 undefined          A:1           <RETURN>
                Read_CHR_OCHR                           XREF[1]:     RESET:0187(c)
037b 02 1b 0b       BRSET       0x1,DAT_001b,LAB_0389
037e b6 1d          LDA         RAM_001d
0380 a4 03          AND         #0x3
0382 a1 00          CMP         #0x0
0384 26 03          BNE         LAB_0389
0386 cc 03 8c       JMP         LAB_038c

                LAB_0389                                XREF[2]:     037b(j), 0384(j)
0389 cc 04 3c       JMP         LAB_043c

                LAB_038c                                XREF[1]:     0386(j)
038c b6 18          LDA         DAT_0018
038e a4 07          AND         #0x7
0390 ab 10          ADD         #0x10
0392 97             TAX
0393 d6 0c f8       LDA         DAT_0cf8,X
0396 b7 59          STA         DAT_0059
0398 b6 18          LDA         DAT_0018
039a 44             LSRA
039b 44             LSRA
039c 44             LSRA
039d a4 07          AND         #0x7
039f ab 10          ADD         #0x10
03a1 97             TAX
03a2 d6 0c f8       LDA         DAT_0cf8,X
03a5 b7 58          STA         DAT_0058
```

```
03a7 be 18          LDX         DAT_0018
03a9 b6 17          LDA         RAM_0017
03ab 58             ASLX
03ac 49             ROLA
03ad 58             ASLX
03ae 49             ROLA
03af a4 07          AND         #0x7
03b1 ab 10          ADD         #0x10
03b3 97             TAX
03b4 d6 0c f8       LDA         DAT_0cf8,X
03b7 b7 57          STA         DAT_0057
03b9 b6 17          LDA         RAM_0017
03bb 44             LSRA
03bc a4 07          AND         #0x7
03be ab 10          ADD         #0x10
03c0 97             TAX
03c1 d6 0c f8       LDA         DAT_0cf8,X
03c4 b7 56          STA         DAT_0056
03c6 b6 17          LDA         RAM_0017
03c8 44             LSRA
03c9 44             LSRA
03ca 44             LSRA
03cb 44             LSRA
03cc a4 07          AND         #0x7
03ce ab 10          ADD         #0x10
03d0 97             TAX
03d1 d6 0c f8       LDA         DAT_0cf8,X
03d4 b7 55          STA         DAT_0055
03d6 06 1b 24       BRSET       0x3,DAT_001b,LAB_03fd
03d9 b6 17          LDA         RAM_0017
03db 49             ROLA
03dc 49             ROLA
03dd a4 01          AND         #0x1
03df ab 10          ADD         #0x10
03e1 97             TAX
03e2 d6 0c f8       LDA         DAT_0cf8,X
03e5 b7 54          STA         DAT_0054
03e7 3f 53          CLR         DAT_0053
03e9 3f 52          CLR         DAT_0052
03eb ae 02          LDX         #0x2
03ed a6 77          LDA         #0x77

                    LAB_03ef                                XREF[1]:    03fa(j)
03ef e1 52          CMP         0x52,X=>DAT_0054
03f1 26 09          BNE         LAB_03fc
03f3 6f 52          CLR         0x52,X=>DAT_0054
03f5 5c             INCX
03f6 a3 07          CPX         #0x7
03f8 27 02          BEQ         LAB_03fc
03fa 20 f3          BRA         LAB_03ef

                    LAB_03fc                                XREF[2]:    03f1(j), 03f8(j)
03fc 81             RTS

                    LAB_03fd                                XREF[1]:    03d6(j)
03fd be 17          LDX         RAM_0017
03ff b6 16          LDA         RAM_0016
0401 58             ASLX
0402 49             ROLA
0403 a4 07          AND         #0x7
0405 ab 10          ADD         #0x10
0407 97             TAX
0408 d6 0c f8       LDA         DAT_0cf8,X
040b b7 54          STA         DAT_0054
040d b6 16          LDA         RAM_0016
040f 44             LSRA
0410 44             LSRA
0411 a4 07          AND         #0x7
0413 ab 10          ADD         #0x10
0415 97             TAX
0416 d6 0c f8       LDA         DAT_0cf8,X
0419 b7 53          STA         DAT_0053
041b b6 16          LDA         RAM_0016
041d 49             ROLA
041e 49             ROLA
041f 49             ROLA
0420 49             ROLA
0421 a4 07          AND         #0x7
0423 ab 10          ADD         #0x10
0425 97             TAX
0426 d6 0c f8       LDA         DAT_0cf8,X
0429 b7 52          STA         DAT_0052
042b 5f             CLRX
042c a6 77          LDA         #0x77
```

```
                LAB_042e                                XREF[1]:     0439(j)
042e e1 52          CMP         0x52,X
0430 26 09          BNE         LAB_043b
0432 6f 52          CLR         0x52,X
0434 5c             INCX
0435 a3 07          CPX         #0x7
0437 27 02          BEQ         LAB_043b
0439 20 f3          BRA         LAB_042e

                LAB_043b                                XREF[2]:     0430(j), 0437(j)
043b 81             RTS

                LAB_043c                                XREF[1]:     0389(j)
043c b6 18          LDA         DAT_0018
043e b7 5a          STA         PortC_SavedValue
0440 ae 03          LDX         #0x3
0442 bf 51          STX         DAT_0051

                LAB_0444                                XREF[1]:     0458(j)
0444 b6 5a          LDA         PortC_SavedValue
0446 a4 03          AND         #0x3
0448 ab 04          ADD         #0x4
044a 97             TAX
044b d6 0c f8       LDA         DAT_0cf8,X
044e be 51          LDX         DAT_0051
0450 e7 56          STA         0x56,X=>DAT_0059
0452 34 5a          LSR         PortC_SavedValue
0454 34 5a          LSR         PortC_SavedValue
0456 3a 51          DEC         DAT_0051
0458 2a ea          BPL         LAB_0444
045a b6 17          LDA         RAM_0017
045c b7 5a          STA         PortC_SavedValue
045e ae 03          LDX         #0x3
0460 bf 51          STX         DAT_0051

                LAB_0462                                XREF[1]:     0476(j)
0462 b6 5a          LDA         PortC_SavedValue
0464 a4 03          AND         #0x3
0466 ab 04          ADD         #0x4
0468 97             TAX
0469 d6 0c f8       LDA         DAT_0cf8,X
046c be 51          LDX         DAT_0051
046e e7 52          STA         0x52,X=>DAT_0055
0470 34 5a          LSR         PortC_SavedValue
0472 34 5a          LSR         PortC_SavedValue
0474 3a 51          DEC         DAT_0051
0476 2a ea          BPL         LAB_0462
0478 81             RTS

                ****************************************************************
                *                          FUNCTION                            *
                ****************************************************************
                undefined Something_RAM_050_051()
 undefined        A:1            <RETURN>
                Something_RAM_050_051                   XREF[3]:     RESET:0176(c), RESET:0184(c),
                                                                     RESET:0192(c)
0479 a6 1f          LDA         #0x1f
047b b7 4f          STA         DAT_004f
047d ae 03          LDX         #0x3
047f bf 51          STX         DAT_0051

                LAB_0481                                XREF[1]:     04a4(j)
0481 a6 07          LDA         #0x7
0483 b7 50          STA         DAT_0050

                LAB_0485                                XREF[1]:     049e(j)
0485 4f             CLRA
0486 64 56          LSR         0x56,X=>DAT_0059
0488 24 02          BCC         LAB_048c
048a ba 4b          ORA         DAT_004b

                LAB_048c                                XREF[1]:     0488(j)
048c 64 52          LSR         0x52,X=>DAT_0055
048e 24 02          BCC         LAB_0492
0490 ba 4c          ORA         DAT_004c

                LAB_0492                                XREF[1]:     048e(j)
0492 be 4f          LDX         DAT_004f
0494 3a 4f          DEC         DAT_004f
0496 ea 27          ORA         0x27,X=>PortC_ValueToWrite
0498 e7 27          STA         0x27,X=>PortC_ValueToWrite
049a be 51          LDX         DAT_0051
049c 3a 50          DEC         DAT_0050
049e 2a e5          BPL         LAB_0485
```

```
04a0 3a 51          DEC         DAT_0051
04a2 be 51          LDX         DAT_0051
04a4 2a db          BPL         LAB_0481
04a6 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    void Read_Write_Port_C(void)
 void                 <VOID>        <RETURN>
                    Read_Write_Port_C                       XREF[1]:    RESET:019e(c)
04a7 b6 02          LDA         PORTC
04a9 b7 5a          STA         PortC_SavedValue
04ab b6 46          LDA         PortC_ValueToWrite
04ad 97             TAX
04ae aa 80          ORA         #0x80
04b0 bf 02          STX         PORTC
04b2 b7 02          STA         PORTC
04b4 b6 45          LDA         DAT_0045
04b6 b7 02          STA         PORTC
04b8 1e 02          BSET        0x7,PORTC
04ba ae 1d          LDX         #0x1d

                    LAB_04bc                                XREF[1]:    04c3(j)
04bc e6 27          LDA         0x27,X=>DAT_0044
04be b7 02          STA         PORTC
04c0 1e 02          BSET        0x7,PORTC
04c2 5a             DECX
04c3 2a f7          BPL         LAB_04bc
04c5 a6 1f          LDA         #0x1f

                    LAB_04c7                                XREF[1]:    04d1(j)
04c7 97             TAX
04c8 ee 27          LDX         0x27,X=>PortC_ValueToWrite
04ca ee 86          LDX         0x86,X
04cc bf 02          STX         PORTC
04ce 1e 02          BSET        0x7,PORTC
04d0 4a             DECA
04d1 2a f4          BPL         LAB_04c7
04d3 b6 5a          LDA         PortC_SavedValue
04d5 b7 02          STA         PORTC
04d7 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined Read_Bytes_from_Port_A()
 undefined            A:1           <RETURN>
                    Read_Bytes_from_Port_A                  XREF[1]:    RESET:0161(c)
04d8 cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A                undefinedClock_PB3_RMM_Return_P...
04db b7 1c          STA         RAM_001c
04dd 06 1c 03       BRSET       0x3,RAM_001c,LAB_04e3
04e0 cc 06 be       JMP         FUN_06be                                   undefined FUN_06be()
                    -- Flow Override: CALL_RETURN (CALL_TERMINATOR)

                    LAB_04e3                                XREF[1]:    04dd(j)
04e3 b6 1c          LDA         RAM_001c
04e5 a4 07          AND         #0x7
04e7 48             ASLA
04e8 48             ASLA
04e9 97             TAX

                    switchD_04ea::switchD
04ea dc 04 fc       JMP         0x4fc,X

                    LAB_04ed                                XREF[10]:   055a(j), 0563(j), 0572(j),
                                                                        0591(j), 05c0(j), 05dc(j),
                                                                        0605(j), 060d(j), 0624(j),
                                                                        0668(j)
04ed 01 1d 03       BRCLR       0x0,RAM_001d,LAB_04f3
04f0 cd 06 6b       JSR         FUN_066b                                   undefined FUN_066b()

                    LAB_04f3                                XREF[1]:    04ed(j)
04f3 5f             CLRX
04f4 cd 06 94       JSR         FUN_0694                                   undefined FUN_0694()
04f7 5c             INCX
04f8 cd 06 94       JSR         FUN_0694                                   undefined FUN_0694()
04fb 81             RTS

                    switchD_04ea::caseD_0                   XREF[1]:    04ea(j)
04fc cc 05 1b       JMP         LAB_051b
04ff 9d             ??          9Dh

                    switchD_04ea::caseD_1                   XREF[1]:    04ea(j)
0500 cc 05 75       JMP         LAB_0575
```

```
0503 9d             ??          9Dh

                switchD_04ea::caseD_2                   XREF[1]:    04ea(j)
0504 cc 05 94       JMP         LAB_0594
0507 9d             ??          9Dh

                switchD_04ea::caseD_3                   XREF[1]:    04ea(j)
0508 cc 05 c3       JMP         LAB_05c3
050b 9d             ??          9Dh

                switchD_04ea::caseD_4                   XREF[1]:    04ea(j)
050c cc 05 df       JMP         LAB_05df
050f 9d             ??          9Dh

                switchD_04ea::caseD_5                   XREF[1]:    04ea(j)
0510 cc 06 08       JMP         LAB_0608
0513 9d             ??          9Dh

                switchD_04ea::caseD_6                   XREF[1]:    04ea(j)
0514 cc 06 10       JMP         LAB_0610
0517 9d             ??          9Dh

                switchD_04ea::caseD_7                   XREF[1]:    04ea(j)
0518 cc 06 27       JMP         LAB_0627

                LAB_051b                                XREF[1]:    04fc(j)
051b cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
051e b7 14          STA         RAM_0014
0520 cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
0523 b7 16          STA         RAM_0016
0525 cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
0528 b7 15          STA         RAM_0015
052a cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
052d b7 18          STA         DAT_0018
052f cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
0532 b7 17          STA         RAM_0017
0534 13 1b          BCLR        0x1,DAT_001b
0536 17 1b          BCLR        0x3,DAT_001b
0538 19 1b          BCLR        0x4,DAT_001b
053a ae 50          LDX         #0x50
053c bf 10          STX         RAM_0010
053e 05 1a 25       BRCLR       0x2,RAM_001a,LAB_0566
0541 ae 54          LDX         #0x54
0543 bf 11          STX         RAM_0011
0545 b6 1a          LDA         RAM_001a
0547 a4 18          AND         #0x18
0549 44             LSRA
054a b7 52          STA         DAT_0052
054c b6 1a          LDA         RAM_001a
054e a4 03          AND         #0x3
0550 ba 52          ORA         DAT_0052
0552 a1 08          CMP         #0x8
0554 25 07          BCS         LAB_055d
0556 b7 13          STA         RAM_0013
0558 3f 12          CLR         RAM_0012
055a cc 04 ed       JMP         LAB_04ed

                LAB_055d                                XREF[1]:    0554(j)
055d ab 30          ADD         #0x30
055f b7 13          STA         RAM_0013
0561 3f 12          CLR         RAM_0012
0563 cc 04 ed       JMP         LAB_04ed

                LAB_0566                                XREF[1]:    053e(j)
0566 ae 45          LDX         #0x45
0568 bf 11          STX         RAM_0011
056a ae 58          LDX         #0x58
056c bf 12          STX         RAM_0012
056e ae 4d          LDX         #0x4d
0570 bf 13          STX         RAM_0013
0572 cc 04 ed       JMP         LAB_04ed

                LAB_0575                                XREF[1]:    0500(j)
0575 cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
0578 b7 18          STA         DAT_0018
057a cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
057d b7 17          STA         RAM_0017
057f cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
0582 b7 16          STA         RAM_0016
0584 cd 09 bc       JSR         Clock_PB3_RMM_Return_Port_A         undefinedClock_PB3_RMM_Return_P...
0587 b7 15          STA         RAM_0015
0589 3f 14          CLR         RAM_0014
058b 18 1b          BSET        0x4,DAT_001b
058d 13 1b          BCLR        0x1,DAT_001b
058f 17 1b          BCLR        0x3,DAT_001b
```

```
0591 cc 04 ed       JMP       LAB_04ed

                 LAB_0594                                XREF[1]:    0504(j)
0594 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
0597 b7 18          STA       DAT_0018
0599 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
059c b7 17          STA       RAM_0017
059e 12 1b          BSET      0x1,DAT_001b
05a0 19 1b          BCLR      0x4,DAT_001b
05a2 17 1b          BCLR      0x3,DAT_001b
05a4 a6 10          LDA       #0x10
05a6 b7 1d          STA       RAM_001d
05a8 a6 00          LDA       #0x0
05aa b7 1e          STA       RAM_001e
05ac b6 19          LDA       PortD_PONI_IONI_bit_4_5
05ae a4 0f          AND       #0xf
05b0 ab 10          ADD       #0x10
05b2 b7 12          STA       RAM_0012
05b4 b6 19          LDA       PortD_PONI_IONI_bit_4_5
05b6 a4 30          AND       #0x30
05b8 44             LSRA
05b9 44             LSRA
05ba 44             LSRA
05bb 44             LSRA
05bc ab 3a          ADD       #0x3a
05be b7 13          STA       RAM_0013
05c0 cc 04 ed       JMP       LAB_04ed

                 LAB_05c3                                XREF[1]:    0508(j)
05c3 16 1b          BSET      0x3,DAT_001b
05c5 13 1b          BCLR      0x1,DAT_001b
05c7 19 1b          BCLR      0x4,DAT_001b
05c9 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
05cc b7 16          STA       RAM_0016
05ce 3f 15          CLR       RAM_0015
05d0 3f 14          CLR       RAM_0014
05d2 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
05d5 b7 18          STA       DAT_0018
05d7 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
05da b7 17          STA       RAM_0017
05dc cc 04 ed       JMP       LAB_04ed

                 LAB_05df                                XREF[1]:    050c(j)
05df cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
05e2 b7 52          STA       DAT_0052
05e4 a4 03          AND       #0x3
05e6 48             ASLA
05e7 97             TAX
05e8 d6 0d 12       LDA       DAT_0d12,X                            = 3Ah    :
05eb b7 13          STA       RAM_0013
05ed 5c             INCX
05ee d6 0d 12       LDA       DAT_0d12,X                            = 3Ah    :
05f1 b7 12          STA       RAM_0012
05f3 b6 52          LDA       DAT_0052
05f5 a4 18          AND       #0x18
05f7 44             LSRA
05f8 44             LSRA
05f9 97             TAX
05fa d6 0d 1a       LDA       DAT_0d1a,X                            = 43h    C
05fd b7 11          STA       RAM_0011
05ff 5c             INCX
0600 d6 0d 1a       LDA       DAT_0d1a,X                            = 43h    C
0603 b7 10          STA       RAM_0010
0605 cc 04 ed       JMP       LAB_04ed

                 LAB_0608                                XREF[1]:    0510(j)
0608 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
060b b7 1a          STA       RAM_001a
060d cc 04 ed       JMP       LAB_04ed

                 LAB_0610                                XREF[1]:    0514(j)
0610 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
0613 b7 11          STA       RAM_0011
0615 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
0618 b7 10          STA       RAM_0010
061a cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
061d b7 13          STA       RAM_0013
061f cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
0622 b7 12          STA       RAM_0012
0624 cc 04 ed       JMP       LAB_04ed

                 LAB_0627                                XREF[1]:    0518(j)
0627 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
062a b7 1d          STA       RAM_001d
062c cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A           undefinedClock_PB3_RMM_Return_P...
```

```
062f b7 1e          STA     RAM_001e
0631 a4 f0          AND     #0xf0
0633 a1 40          CMP     #0x40
0635 26 15          BNE     LAB_064c
0637 a6 40          LDA     #0x40
0639 b7 0a          STA     MR_Misc_register
063b a6 47          LDA     #0x47
063d b7 09          STA     TCR_Timer_Control_Register                  = 0.0
063f a6 01          LDA     #0x1
0641 b7 0b          STA     PCR_Program_Control_Register
0643 3f 04          CLR     DDRA
0645 3f 05          CLR     DDRB
0647 3f 06          CLR     DDRC
0649 cc 01 10       JMP     RESET                                       undefined RESET()
                    -- Flow Override: CALL_RETURN (CALL_TERMINATOR)

                    LAB_064c                                    XREF[1]:    0635(j)
064c 15 1b          BCLR    0x2,DAT_001b
064e a1 10          CMP     #0x10
0650 26 02          BNE     LAB_0654
0652 14 1b          BSET    0x2,DAT_001b

                    LAB_0654                                    XREF[1]:    0650(j)
0654 b6 1d          LDA     RAM_001d
0656 48             ASLA
0657 39 1e          ROL     RAM_001e
0659 48             ASLA
065a 39 1e          ROL     RAM_001e
065c b6 1e          LDA     RAM_001e
065e a4 3f          AND     #0x3f
0660 b7 1e          STA     RAM_001e
0662 b6 1d          LDA     RAM_001d
0664 a4 3f          AND     #0x3f
0666 b7 1d          STA     RAM_001d
0668 cc 04 ed       JMP     LAB_04ed

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_066b()
 undefined            A:1            <RETURN>
                    FUN_066b                                    XREF[1]:    Read_Bytes_from_Port_A:04f0(c)
066b 3f 52          CLR     DAT_0052
066d 07 1b 04       BRCLR   0x3,DAT_001b,LAB_0674
0670 b6 16          LDA     RAM_0016
0672 b7 52          STA     DAT_0052

                    LAB_0674                                    XREF[1]:    066d(j)
0674 be 1e          LDX     RAM_001e
0676 5d             TSTX
0677 27 09          BEQ     LAB_0682

                    LAB_0679                                    XREF[1]:    0680(j)
0679 34 52          LSR     DAT_0052
067b 36 17          ROR     RAM_0017
067d 36 18          ROR     DAT_0018
067f 5a             DECX
0680 26 f7          BNE     LAB_0679

                    LAB_0682                                    XREF[1]:    0677(j)
0682 b6 18          LDA     DAT_0018
0684 a4 0f          AND     #0xf
0686 97             TAX
0687 3f 17          CLR     RAM_0017
0689 3f 18          CLR     DAT_0018
068b 99             SEC

                    LAB_068c                                    XREF[1]:    0691(j)
068c 39 18          ROL     DAT_0018
068e 39 17          ROL     RAM_0017
0690 5a             DECX
0691 2a f9          BPL     LAB_068c
0693 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_0694()
 undefined            A:1            <RETURN>
                    FUN_0694                                    XREF[2]:    Read_Bytes_from_Port_A:04f4(c),
                                                                            Read_Bytes_from_Port_A:04f8(c)
0694 4f             CLRA
0695 09 1d 05       BRCLR   0x4,RAM_001d,LAB_069d
0698 e6 6d          LDA     0x6d,X
069a 43             COMA
```

```
069b e4 5e          AND       0x5e,X

                LAB_069d                                XREF[1]:    0695(j)
069d b7 52          STA       DAT_0052
069f e6 17          LDA       0x17,X
06a1 07 1d 07       BRCLR     0x3,RAM_001d,LAB_06ab
06a4 e6 6d          LDA       0x6d,X
06a6 43             COMA
06a7 ea 5e          ORA       0x5e,X
06a9 e4 17          AND       0x17,X

                LAB_06ab                                XREF[1]:    06a1(j)
06ab ba 52          ORA       DAT_0052
06ad e7 5e          STA       0x5e,X
06af e7 17          STA       0x17,X
06b1 81             RTS

                *************************************************************
                *                          FUNCTION                         *
                *************************************************************
                undefined FUN_06b2()
 undefined        A:1           <RETURN>
                FUN_06b2                                XREF[1]:    TIMER_INTERRUPT:08d1(c)
06b2 b6 6f          LDA       DAT_006f
06b4 43             COMA
06b5 b4 60          AND       DAT_0060
06b7 ba 19          ORA       PortD_PONI_IONI_bit_4_5
06b9 b7 60          STA       DAT_0060
06bb b7 19          STA       PortD_PONI_IONI_bit_4_5
06bd 81             RTS

                *************************************************************
                *                          FUNCTION                         *
                *************************************************************
                undefined FUN_06be()
 undefined        A:1           <RETURN>
                FUN_06be                                XREF[1]:    Read_Bytes_from_Port_A:04e0(c)
06be be 1c          LDX       RAM_001c
06c0 9f             TXA
06c1 a4 07          AND       #0x7
06c3 b7 1c          STA       RAM_001c
06c5 b6 02          LDA       PORTC
06c7 a4 f8          AND       #0xf8
06c9 ba 1c          ORA       RAM_001c
06cb b7 02          STA       PORTC
06cd 9f             TXA
06ce a4 04          AND       #0x4
06d0 26 01          BNE       LAB_06d3
06d2 81             RTS

                LAB_06d3                                XREF[1]:    06d0(j)
06d3 1b 01          BCLR      0x5,PORTB
06d5 9f             TXA
06d6 a4 03          AND       #0x3
06d8 a8 03          EOR       #0x3
06da b7 1c          STA       RAM_001c
06dc 9f             TXA
06dd a4 20          AND       #0x20
06df 26 19          BNE       LAB_06fa
06e1 1d 01          BCLR      0x6,PORTB
06e3 cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A     undefinedClock_PB3_RMM_Return_P...
06e6 be 1c          LDX       RAM_001c
06e8 e7 47          STA       0x47,X
06ea cd 09 c5       JSR       FUN_09c5                        undefined FUN_09c5()
06ed 1a 01          BSET      0x5,PORTB
06ef a3 00          CPX       #0x0
06f1 26 06          BNE       LAB_06f9
06f3 cd 07 15       JSR       FUN_0715                        undefined FUN_0715()
06f6 cd 09 ee       JSR       FUN_09ee                        undefined FUN_09ee()

                LAB_06f9                                XREF[1]:    06f1(j)
06f9 81             RTS

                LAB_06fa                                XREF[1]:    06df(j)
06fa 1c 01          BSET      0x6,PORTB
06fc cd 09 bc       JSR       Clock_PB3_RMM_Return_Port_A     undefinedClock_PB3_RMM_Return_P...
06ff be 1c          LDX       RAM_001c
0701 a3 03          CPX       #0x3
0703 26 06          BNE       LAB_070b
0705 cd 0a c0       JSR       FUN_0ac0                        undefined FUN_0ac0()
0708 cd 08 03       JSR       FUN_0803                        undefined FUN_0803()

                LAB_070b                                XREF[1]:    0703(j)
070b be 1c          LDX       RAM_001c
070d e6 47          LDA       0x47,X
```

```
070f cd 09 c5        JSR       FUN_09c5                                  undefined FUN_09c5()
0712 1a 01           BSET      0x5,PORTB
0714 81              RTS

                     *************************************************************
                     *                          FUNCTION                         *
                     *************************************************************
                     undefined FUN_0715()
      undefined        A:1           <RETURN>
                     FUN_0715                                    XREF[1]:     FUN_06be:06f3(c)
0715 ae 05           LDX       #0x5

                     LAB_0717                                    XREF[1]:     071a(j)
0717 6f 20           CLR       0x20,X=>DAT_0025
0719 5a              DECX
071a 2a fb           BPL       LAB_0717
071c b6 80           LDA       DAT_0080                                    = 02h
071e b7 4b           STA       DAT_004b
0720 b6 81           LDA       DAT_0081                                    = DAh
0722 b7 4c           STA       DAT_004c
0724 a6 03           LDA       #0x3
0726 b7 26           STA       DAT_0026
0728 b6 47           LDA       DAT_0047
072a b7 4d           STA       DAT_004d
072c b6 48           LDA       DAT_0048
072e b7 4e           STA       DAT_004e

                     LAB_0730                                    XREF[1]:     0757(j)
0730 b6 4d           LDA       DAT_004d
0732 b7 52           STA       DAT_0052
0734 b6 4e           LDA       DAT_004e
0736 b7 53           STA       DAT_0053
0738 b6 4e           LDA       DAT_004e
073a b0 4c           SUB       DAT_004c
073c b7 4e           STA       DAT_004e
073e b6 4d           LDA       DAT_004d
0740 b2 4b           SBC       DAT_004b
0742 b7 4d           STA       DAT_004d
0744 a6 da           LDA       #0xda
0746 b7 4c           STA       DAT_004c
0748 25 0f           BCS       LAB_0759
074a 3c 20           INC       DAT_0020
074c 3c 26           INC       DAT_0026
074e 05 26 06        BRCLR     0x2,DAT_0026,LAB_0757
0751 3c 4c           INC       DAT_004c
0753 3c 4c           INC       DAT_004c
0755 3f 26           CLR       DAT_0026

                     LAB_0757                                    XREF[1]:     074e(j)
0757 20 d7           BRA       LAB_0730

                     LAB_0759                                    XREF[1]:     0748(j)
0759 b6 52           LDA       DAT_0052
075b b7 4d           STA       DAT_004d
075d b6 53           LDA       DAT_0053
075f b7 4e           STA       DAT_004e
0761 b6 20           LDA       DAT_0020
0763 ab 4f           ADD       #0x4f
0765 b7 20           STA       DAT_0020
0767 3c 21           INC       DAT_0021
0769 3f 4b           CLR       DAT_004b
076b a6 3e           LDA       #0x3e
076d b7 4c           STA       DAT_004c

                     LAB_076f                                    XREF[1]:     0798(j)
076f b6 4d           LDA       DAT_004d
0771 b7 52           STA       DAT_0052
0773 b6 4e           LDA       DAT_004e
0775 b7 53           STA       DAT_0053
0777 b6 4e           LDA       DAT_004e
0779 b0 4c           SUB       DAT_004c
077b b7 4e           STA       DAT_004e
077d b6 4d           LDA       DAT_004d
077f b2 4b           SBC       DAT_004b
0781 b7 4d           STA       DAT_004d
0783 25 15           BCS       LAB_079a
0785 3c 21           INC       DAT_0021
0787 be 21           LDX       DAT_0021
0789 d6 0d de        LDA       DAT_0dde,X
078c a3 02           CPX       #0x2
078e 26 06           BNE       LAB_0796
0790 3d 26           TST       DAT_0026
0792 26 02           BNE       LAB_0796
0794 ab 02           ADD       #0x2
```

```
                    LAB_0796                                XREF[2]:     078e(j), 0792(j)
0796 b7 4c              STA         DAT_004c
0798 20 d5              BRA         LAB_076f

                    LAB_079a                                XREF[1]:     0783(j)
079a b6 52              LDA         DAT_0052
079c b7 4d              STA         DAT_004d
079e b6 53              LDA         DAT_0053
07a0 b7 4e              STA         DAT_004e
07a2 44                 LSRA
07a3 24 04              BCC         LAB_07a9
07a5 ae 0c              LDX         #0xc
07a7 bf 23              STX         DAT_0023

                    LAB_07a9                                XREF[1]:     07a3(j)
07a9 4c                 INCA
07aa b7 22              STA         DAT_0022
07ac b6 49              LDA         DAT_0049
07ae b7 4d              STA         DAT_004d
07b0 b6 4a              LDA         DAT_004a
07b2 b7 4e              STA         DAT_004e
07b4 b6 82              LDA         DAT_0082                    = 0Eh
07b6 b7 4b              STA         DAT_004b
07b8 b6 83              LDA         DAT_0083                    = 10h
07ba b7 4c              STA         DAT_004c

                    LAB_07bc                                XREF[1]:     07d4(j)
07bc b6 4d              LDA         DAT_004d
07be b7 52              STA         DAT_0052
07c0 b6 4e              LDA         DAT_004e
07c2 b7 53              STA         DAT_0053
07c4 b6 4e              LDA         DAT_004e
07c6 b0 4c              SUB         DAT_004c
07c8 b7 4e              STA         DAT_004e
07ca b6 4d              LDA         DAT_004d
07cc b2 4b              SBC         DAT_004b
07ce b7 4d              STA         DAT_004d
07d0 25 04              BCS         LAB_07d6
07d2 3c 23              INC         DAT_0023
07d4 20 e6              BRA         LAB_07bc

                    LAB_07d6                                XREF[1]:     07d0(j)
07d6 b6 52              LDA         DAT_0052
07d8 b7 4d              STA         DAT_004d
07da b6 53              LDA         DAT_0053
07dc b7 4e              STA         DAT_004e
07de 3f 4b              CLR         DAT_004b
07e0 a6 3c              LDA         #0x3c
07e2 b7 4c              STA         DAT_004c

                    LAB_07e4                                XREF[1]:     07fc(j)
07e4 b6 4d              LDA         DAT_004d
07e6 b7 52              STA         DAT_0052
07e8 b6 4e              LDA         DAT_004e
07ea b7 53              STA         DAT_0053
07ec b6 4e              LDA         DAT_004e
07ee b0 4c              SUB         DAT_004c
07f0 b7 4e              STA         DAT_004e
07f2 b6 4d              LDA         DAT_004d
07f4 b2 4b              SBC         DAT_004b
07f6 b7 4d              STA         DAT_004d
07f8 25 04              BCS         LAB_07fe
07fa 3c 24              INC         DAT_0024
07fc 20 e6              BRA         LAB_07e4

                    LAB_07fe                                XREF[1]:     07f8(j)
07fe b6 53              LDA         DAT_0053
0800 b7 25              STA         DAT_0025
0802 81                 RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_0803()
 undefined          A:1           <RETURN>
                    FUN_0803                                XREF[1]:     FUN_06be:0708(c)
0803 b6 20              LDA         DAT_0020
0805 a0 4f              SUB         #0x4f
0807 b7 20              STA         DAT_0020
0809 3f 4d              CLR         DAT_004d
080b 3f 4e              CLR         DAT_004e
080d 3f 4f              CLR         DAT_004f
080f a6 03              LDA         #0x3
0811 b7 26              STA         DAT_0026
```

```
0813 b6 80          LDA       DAT_0080                                = 02h
0815 b7 4b          STA       DAT_004b
0817 b6 81          LDA       DAT_0081                                = DAh
0819 b7 4c          STA       DAT_004c

                LAB_081b                                    XREF[1]:    083e(j)
081b 3c 4f          INC       DAT_004f
081d b6 4f          LDA       DAT_004f
081f b1 20          CMP       DAT_0020
0821 22 1d          BHI       LAB_0840
0823 b6 4e          LDA       DAT_004e
0825 bb 4c          ADD       DAT_004c
0827 b7 4e          STA       DAT_004e
0829 b6 4d          LDA       DAT_004d
082b b9 4b          ADC       DAT_004b
082d b7 4d          STA       DAT_004d
082f a6 da          LDA       #0xda
0831 b7 4c          STA       DAT_004c
0833 3c 26          INC       DAT_0026
0835 05 26 06       BRCLR     0x2,DAT_0026,LAB_083e
0838 3c 4c          INC       DAT_004c
083a 3c 4c          INC       DAT_004c
083c 3f 26          CLR       DAT_0026

                LAB_083e                                    XREF[1]:    0835(j)
083e 20 db          BRA       LAB_081b

                LAB_0840                                    XREF[1]:    0821(j)
0840 b6 21          LDA       DAT_0021
0842 3d 26          TST       DAT_0026
0844 26 02          BNE       LAB_0848
0846 ab 0d          ADD       #0xd

                LAB_0848                                    XREF[1]:    0844(j)
0848 48             ASLA
0849 97             TAX
084a 5c             INCX
084b d6 0d eb       LDA       DAT_0deb,X
084e bb 4e          ADD       DAT_004e
0850 b7 4e          STA       DAT_004e
0852 5a             DECX
0853 d6 0d eb       LDA       DAT_0deb,X
0856 b9 4d          ADC       DAT_004d
0858 b7 4d          STA       DAT_004d
085a b6 22          LDA       DAT_0022
085c 4a             DECA
085d 48             ASLA
085e bb 4e          ADD       DAT_004e
0860 b7 4e          STA       DAT_004e
0862 24 02          BCC       LAB_0866
0864 3c 4d          INC       DAT_004d

                LAB_0866                                    XREF[1]:    0862(j)
0866 b6 4d          LDA       DAT_004d
0868 b7 47          STA       DAT_0047
086a b6 4e          LDA       DAT_004e
086c b7 48          STA       DAT_0048
086e b6 23          LDA       DAT_0023
0870 a1 0c          CMP       #0xc
0872 25 0a          BCS       LAB_087e
0874 a0 0c          SUB       #0xc
0876 3c 48          INC       DAT_0048
0878 3d 48          TST       DAT_0048
087a 26 02          BNE       LAB_087e
087c 3c 47          INC       DAT_0047

                LAB_087e                                    XREF[2]:    0872(j), 087a(j)
087e 48             ASLA
087f 97             TAX
0880 5c             INCX
0881 d6 0e 1f       LDA       DAT_0e1f,X
0884 b7 4e          STA       DAT_004e
0886 5a             DECX
0887 d6 0e 1f       LDA       DAT_0e1f,X
088a b7 4d          STA       DAT_004d
088c ae 05          LDX       #0x5
088e 3f 4b          CLR       DAT_004b
0890 a6 3c          LDA       #0x3c
0892 b7 4c          STA       DAT_004c
0894 b6 24          LDA       DAT_0024
0896 b7 52          STA       DAT_0052

                LAB_0898                                    XREF[1]:    08ad(j)
0898 34 52          LSR       DAT_0052
089a 24 0c          BCC       LAB_08a8
```

```
089c b6 4e          LDA     DAT_004e
089e bb 4c          ADD     DAT_004c
08a0 b7 4e          STA     DAT_004e
08a2 b6 4d          LDA     DAT_004d
08a4 b9 4b          ADC     DAT_004b
08a6 b7 4d          STA     DAT_004d

                    LAB_08a8                                XREF[1]:    089a(j)
08a8 38 4c          ASL     DAT_004c
08aa 39 4b          ROL     DAT_004b
08ac 5a             DECX
08ad 2a e9          BPL     LAB_0898
08af b6 25          LDA     DAT_0025
08b1 bb 4e          ADD     DAT_004e
08b3 b7 4e          STA     DAT_004e
08b5 24 02          BCC     LAB_08b9
08b7 3c 4d          INC     DAT_004d

                    LAB_08b9                                XREF[1]:    08b5(j)
08b9 b6 4d          LDA     DAT_004d
08bb b7 49          STA     DAT_0049
08bd b6 4e          LDA     DAT_004e
08bf b7 4a          STA     DAT_004a
08c1 b6 20          LDA     DAT_0020
08c3 ab 4f          ADD     #0x4f
08c5 b7 20          STA     DAT_0020
08c7 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined TIMER_INTERRUPT()
 undefined            A:1            <RETURN>
                    INT2 or TIMER interrupt
                    TIMER_INTERRUPT                         XREF[1]:    0ff8(*)
08c8 a6 03          LDA     #0x3
08ca b7 08          STA     TDR_Timer_Data_Register
08cc 1f 09          BCLR    0x7,TCR_Timer_Control_Register      = 0.0
08ce cd 09 d4       JSR     Read_Port_D_Update_CLR              undefinedRead_Port_D_Update_CLR()
08d1 cd 06 b2       JSR     FUN_06b2                            undefined FUN_06b2()
08d4 03 1b 03       BRCLR   0x1,DAT_001b,LAB_08da
08d7 cd 09 85       JSR     Read_Port_D                         undefined Read_Port_D()

                    LAB_08da                                XREF[1]:    08d4(j)
08da 3a 5b          DEC     RAM_005b
08dc 26 07          BNE     LAB_08e5
08de cd 09 48       JSR     FUN_0948                            undefined FUN_0948()
08e1 a6 10          LDA     #0x10
08e3 b7 5b          STA     RAM_005b

                    LAB_08e5                                XREF[1]:    08dc(j)
08e5 3a 5c          DEC     RAM_005c
08e7 26 0f          BNE     LAB_08f8
08e9 a6 c8          LDA     #0xc8
08eb b7 5c          STA     RAM_005c
08ed 3a 5d          DEC     RAM_005D
08ef 26 07          BNE     LAB_08f8
08f1 a6 02          LDA     #0x2
08f3 b7 5d          STA     RAM_005D
08f5 cd 08 f9       JSR     FUN_08f9                            undefined FUN_08f9()

                    LAB_08f8                                XREF[2]:    08e7(j), 08ef(j)
08f8 80             RTI

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_08f9()
 undefined            A:1            <RETURN>
                    FUN_08f9                                XREF[1]:    TIMER_INTERRUPT:08f5(c)
08f9 a6 3c          LDA     #0x3c
08fb 3c 25          INC     DAT_0025
08fd b1 25          CMP     DAT_0025
08ff 22 46          BHI     LAB_0947
0901 3f 25          CLR     DAT_0025
0903 a6 3c          LDA     #0x3c
0905 3c 24          INC     DAT_0024
0907 b1 24          CMP     DAT_0024
0909 22 3c          BHI     LAB_0947
090b 3f 24          CLR     DAT_0024
090d a6 18          LDA     #0x18
090f 3c 23          INC     DAT_0023
0911 b1 23          CMP     DAT_0023
0913 22 32          BHI     LAB_0947
0915 3f 23          CLR     DAT_0023
```

```
0917 be 21          LDX         DAT_0021
0919 d6 0e 37       LDA         DAT_0e37,X
091c a1 1c          CMP         #0x1c
091e 26 05          BNE         LAB_0925
0920 3d 26          TST         DAT_0026
0922 26 01          BNE         LAB_0925
0924 4c             INCA

                    LAB_0925                                XREF[2]:    091e(j), 0922(j)
0925 3c 22          INC         DAT_0022
0927 b1 22          CMP         DAT_0022
0929 24 1c          BCC         LAB_0947
092b a6 01          LDA         #0x1
092d b7 22          STA         DAT_0022
092f a6 0c          LDA         #0xc
0931 3c 21          INC         DAT_0021
0933 b1 21          CMP         DAT_0021
0935 22 10          BHI         LAB_0947
0937 a6 01          LDA         #0x1
0939 b7 21          STA         DAT_0021
093b 3c 20          INC         DAT_0020
093d 3c 26          INC         DAT_0026
093f b6 26          LDA         DAT_0026
0941 a1 03          CMP         #0x3
0943 23 02          BLS         LAB_0947
0945 3f 26          CLR         DAT_0026

                    LAB_0947                                XREF[6]:    08ff(j), 0909(j), 0913(j),
                                                                        0929(j), 0935(j), 0943(j)
0947 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_0948()
     undefined        A:1            <RETURN>
                    FUN_0948                                XREF[1]:    TIMER_INTERRUPT:08de(c)
0948 b6 6c          LDA         DAT_006c
094a b7 6f          STA         DAT_006f
094c b6 6b          LDA         DAT_006b
094e b7 6e          STA         DAT_006e
0950 b6 6a          LDA         DAT_006a
0952 b7 6d          STA         DAT_006d
0954 b6 69          LDA         DAT_0069
0956 b7 6c          STA         DAT_006c
0958 b6 68          LDA         DAT_0068
095a b7 6b          STA         DAT_006b
095c b6 67          LDA         DAT_0067
095e b7 6a          STA         DAT_006a
0960 b6 66          LDA         DAT_0066
0962 b7 69          STA         DAT_0069
0964 b6 65          LDA         DAT_0065
0966 b7 68          STA         DAT_0068
0968 b6 64          LDA         DAT_0064
096a b7 67          STA         DAT_0067
096c b6 63          LDA         DAT_0063
096e b7 66          STA         DAT_0066
0970 b6 62          LDA         DAT_0062
0972 b7 65          STA         DAT_0065
0974 b6 61          LDA         DAT_0061
0976 b7 64          STA         DAT_0064
0978 b6 60          LDA         DAT_0060
097a b7 63          STA         DAT_0063
097c b6 5f          LDA         DAT_005f
097e b7 62          STA         DAT_0062
0980 b6 5e          LDA         DAT_005e
0982 b7 61          STA         DAT_0061
0984 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined Read_Port_D()
     undefined        A:1            <RETURN>
                    Read_Port_D                             XREF[1]:    TIMER_INTERRUPT:08d7(c)
0985 3a 71          DEC         RAM_0071
0987 26 26          BNE         LAB_09af
0989 a6 80          LDA         #0x80
098b b7 71          STA         RAM_0071
098d b6 72          LDA         DAT_0072
098f 4d             TSTA
0990 27 08          BEQ         LAB_099a
0992 44             LSRA
0993 b7 72          STA         DAT_0072
0995 44             LSRA
```

```
0996 44             LSRA
0997 44             LSRA
0998 44             LSRA
0999 4c             INCA

                    LAB_099a                                XREF[1]:    0990(j)
099a ab 21          ADD         #0x21
099c b7 11          STA         RAM_0011
099e b6 73          LDA         DAT_0073
09a0 4d             TSTA
09a1 27 08          BEQ         LAB_09ab
09a3 44             LSRA
09a4 b7 73          STA         DAT_0073
09a6 44             LSRA
09a7 44             LSRA
09a8 44             LSRA
09a9 44             LSRA
09aa 4c             INCA

                    LAB_09ab                                XREF[1]:    09a1(j)
09ab ab 21          ADD         #0x21
09ad b7 10          STA         RAM_0010

                    LAB_09af                                XREF[1]:    0987(j)
09af 09 03 02       BRCLR       0x4,PORTD,LAB_09b4
09b2 3c 72          INC         DAT_0072

                    LAB_09b4                                XREF[1]:    09af(j)
09b4 0a 03 02       BRSET       0x5,PORTD,LAB_09b9
09b7 3c 73          INC         DAT_0073

                    LAB_09b9                                XREF[1]:    09b4(j)
09b9 81             RTS

                    SWI_INTERRUPT                           XREF[1]:    0ffc(*)
09ba 9d             NOP
09bb 80             RTI

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined Clock_PB3_RMM_Return_Port_A()
 undefined            A:1            <RETURN>
                    Clock_PB3_RMM_Return_Port_A             XREF[25]:   Read_Bytes_from_Port_A:04d8(c),
                                                                        Read_Bytes_from_Port_A:051b(c),
                                                                        Read_Bytes_from_Port_A:0520(c),
                                                                        Read_Bytes_from_Port_A:0525(c),
                                                                        Read_Bytes_from_Port_A:052a(c),
                                                                        Read_Bytes_from_Port_A:052f(c),
                                                                        Read_Bytes_from_Port_A:0575(c),
                                                                        Read_Bytes_from_Port_A:057a(c),
                                                                        Read_Bytes_from_Port_A:057f(c),
                                                                        Read_Bytes_from_Port_A:0584(c),
                                                                        Read_Bytes_from_Port_A:0594(c),
                                                                        Read_Bytes_from_Port_A:0599(c),
                                                                        Read_Bytes_from_Port_A:05c9(c),
                                                                        Read_Bytes_from_Port_A:05d2(c),
                                                                        Read_Bytes_from_Port_A:05d7(c),
                                                                        Read_Bytes_from_Port_A:05df(c),
                                                                        Read_Bytes_from_Port_A:0608(c),
                                                                        Read_Bytes_from_Port_A:0610(c),
                                                                        Read_Bytes_from_Port_A:0615(c),
                                                                        FUN_06be:06e3(c), [more]
09bc 9b             SEI
09bd 17 01          BCLR        0x3,PORTB
09bf b6 00          LDA         PORTA
09c1 16 01          BSET        0x3,PORTB
09c3 9a             CLI
09c4 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_09c5()
 undefined            A:1            <RETURN>
                    FUN_09c5                                XREF[2]:    FUN_06be:06ea(c),
                                                                        FUN_06be:070f(c)
09c5 9b             SEI
09c6 b7 00          STA         PORTA
09c8 a6 ff          LDA         #0xff
09ca b7 04          STA         DDRA
09cc 11 01          BCLR        0x0,PORTB
09ce 10 01          BSET        0x0,PORTB
09d0 3f 04          CLR         DDRA
09d2 9a             CLI
```

```
09d3 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined Read_Port_D_Update_CLR()
 undefined            A:1           <RETURN>
                    Read_Port_D_Update_CLR                          XREF[1]:     TIMER_INTERRUPT:08ce(c)
09d4 b6 03          LDA         PORTD
09d6 b7 70          STA         PortD_SavedValue
09d8 a4 0c          AND         #0xc
09da 48             ASLA
09db 48             ASLA
09dc b7 19          STA         PortD_PONI_IONI_bit_4_5
09de 05 70 0c       BRCLR       0x2,PortD_SavedValue,LAB_09ed
09e1 b6 70          LDA         PortD_SavedValue
09e3 a4 03          AND         #0x3
09e5 97             TAX
09e6 d6 0f 0c       LDA         DAT_0f0c,X                              = 01h
09e9 ba 19          ORA         PortD_PONI_IONI_bit_4_5
09eb b7 19          STA         PortD_PONI_IONI_bit_4_5

                    LAB_09ed                                        XREF[1]:     09de(j)
09ed 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_09ee()
 undefined            A:1           <RETURN>
                    FUN_09ee                                        XREF[1]:     FUN_06be:06f6(c)
09ee a6 ff          LDA         #0xff
09f0 b7 04          STA         DDRA
09f2 a6 0f          LDA         #0xf
09f4 b7 00          STA         PORTA
09f6 13 01          BCLR        0x1,PORTB
09f8 12 01          BSET        0x1,PORTB
09fa a6 f0          LDA         #0xf0
09fc b7 00          STA         PORTA
09fe 13 01          BCLR        0x1,PORTB
0a00 12 01          BSET        0x1,PORTB
0a02 a6 05          LDA         #0x5
0a04 b7 00          STA         PORTA
0a06 13 01          BCLR        0x1,PORTB
0a08 12 01          BSET        0x1,PORTB
0a0a b6 26          LDA         DAT_0026
0a0c a4 03          AND         #0x3
0a0e 48             ASLA
0a0f 48             ASLA
0a10 aa f1          ORA         #0xf1
0a12 b7 00          STA         PORTA
0a14 13 01          BCLR        0x1,PORTB
0a16 12 01          BSET        0x1,PORTB
0a18 be 20          LDX         DAT_0020
0a1a 58             ASLX
0a1b d6 0e 44       LDA         DAT_0e44,X
0a1e aa d0          ORA         #0xd0
0a20 b7 00          STA         PORTA
0a22 13 01          BCLR        0x1,PORTB
0a24 12 01          BSET        0x1,PORTB
0a26 5c             INCX
0a27 d6 0e 44       LDA         DAT_0e44,X
0a2a aa c0          ORA         #0xc0
0a2c b7 00          STA         PORTA
0a2e 13 01          BCLR        0x1,PORTB
0a30 12 01          BSET        0x1,PORTB
0a32 be 21          LDX         DAT_0021
0a34 58             ASLX
0a35 d6 0e 44       LDA         DAT_0e44,X
0a38 aa b0          ORA         #0xb0
0a3a b7 00          STA         PORTA
0a3c 13 01          BCLR        0x1,PORTB
0a3e 12 01          BSET        0x1,PORTB
0a40 5c             INCX
0a41 d6 0e 44       LDA         DAT_0e44,X
0a44 aa a0          ORA         #0xa0
0a46 b7 00          STA         PORTA
0a48 13 01          BCLR        0x1,PORTB
0a4a 12 01          BSET        0x1,PORTB
0a4c be 22          LDX         DAT_0022
0a4e 58             ASLX
0a4f d6 0e 44       LDA         DAT_0e44,X
0a52 aa 90          ORA         #0x90
0a54 b7 00          STA         PORTA
0a56 13 01          BCLR        0x1,PORTB
```

```
0a58 12 01          BSET        0x1,PORTB
0a5a 5c             INCX
0a5b d6 0e 44       LDA         DAT_0e44,X
0a5e aa 80          ORA         #0x80
0a60 b7 00          STA         PORTA
0a62 13 01          BCLR        0x1,PORTB
0a64 12 01          BSET        0x1,PORTB
0a66 be 23          LDX         DAT_0023
0a68 58             ASLX
0a69 d6 0e 44       LDA         DAT_0e44,X
0a6c aa 70          ORA         #0x70
0a6e b7 00          STA         PORTA
0a70 13 01          BCLR        0x1,PORTB
0a72 12 01          BSET        0x1,PORTB
0a74 5c             INCX
0a75 d6 0e 44       LDA         DAT_0e44,X
0a78 aa 60          ORA         #0x60
0a7a b7 00          STA         PORTA
0a7c 13 01          BCLR        0x1,PORTB
0a7e 12 01          BSET        0x1,PORTB
0a80 be 24          LDX         DAT_0024
0a82 58             ASLX
0a83 d6 0e 44       LDA         DAT_0e44,X
0a86 aa 50          ORA         #0x50
0a88 b7 00          STA         PORTA
0a8a 13 01          BCLR        0x1,PORTB
0a8c 12 01          BSET        0x1,PORTB
0a8e 5c             INCX
0a8f d6 0e 44       LDA         DAT_0e44,X
0a92 aa 40          ORA         #0x40
0a94 b7 00          STA         PORTA
0a96 13 01          BCLR        0x1,PORTB
0a98 12 01          BSET        0x1,PORTB
0a9a be 25          LDX         DAT_0025
0a9c 58             ASLX
0a9d d6 0e 44       LDA         DAT_0e44,X
0aa0 aa 30          ORA         #0x30
0aa2 b7 00          STA         PORTA
0aa4 13 01          BCLR        0x1,PORTB
0aa6 12 01          BSET        0x1,PORTB
0aa8 be 25          LDX         DAT_0025
0aaa d6 0e 44       LDA         DAT_0e44,X
0aad aa 20          ORA         #0x20
0aaf b7 00          STA         PORTA
0ab1 13 01          BCLR        0x1,PORTB
0ab3 12 01          BSET        0x1,PORTB
0ab5 a6 01          LDA         #0x1
0ab7 b7 00          STA         PORTA
0ab9 13 01          BCLR        0x1,PORTB
0abb 12 01          BSET        0x1,PORTB
0abd 3f 04          CLR         DDRA
0abf 81             RTS

                    *************************************************************
                    *                          FUNCTION                         *
                    *************************************************************
                    undefined FUN_0ac0()
undefined             A:1           <RETURN>
                    FUN_0ac0                                XREF[3]:    RESET:013c(c), FUN_06be:0705(c),
                                                                        0bd8(j)
0ac0 a6 f0          LDA         #0xf0
0ac2 b7 04          STA         DDRA
0ac4 a6 00          LDA         #0x0
0ac6 b7 00          STA         PORTA
0ac8 15 01          BCLR        0x2,PORTB
0aca 14 01          BSET        0x2,PORTB
0acc a6 f0          LDA         #0xf0
0ace b7 00          STA         PORTA
0ad0 15 01          BCLR        0x2,PORTB
0ad2 b6 00          LDA         PORTA
0ad4 14 01          BSET        0x2,PORTB
0ad6 a4 0f          AND         #0xf
0ad8 44             LSRA
0ad9 44             LSRA
0ada b7 26          STA         DAT_0026
0adc a6 c0          LDA         #0xc0
0ade b7 00          STA         PORTA
0ae0 15 01          BCLR        0x2,PORTB
0ae2 b6 00          LDA         PORTA
0ae4 14 01          BSET        0x2,PORTB
0ae6 a4 0f          AND         #0xf
0ae8 b7 20          STA         DAT_0020
0aea a6 d0          LDA         #0xd0
0aec b7 00          STA         PORTA
0aee 15 01          BCLR        0x2,PORTB
```

```
0af0 b6 00          LDA         PORTA
0af2 14 01          BSET        0x2,PORTB
0af4 a4 0f          AND         #0xf
0af6 97             TAX
0af7 58             ASLX
0af8 58             ASLX
0af9 58             ASLX
0afa bf 52          STX         DAT_0052
0afc 48             ASLA
0afd bb 52          ADD         DAT_0052
0aff bb 20          ADD         DAT_0020
0b01 b7 20          STA         DAT_0020
0b03 a6 a0          LDA         #0xa0
0b05 b7 00          STA         PORTA
0b07 15 01          BCLR        0x2,PORTB
0b09 b6 00          LDA         PORTA
0b0b 14 01          BSET        0x2,PORTB
0b0d a4 0f          AND         #0xf
0b0f b7 21          STA         DAT_0021
0b11 a6 b0          LDA         #0xb0
0b13 b7 00          STA         PORTA
0b15 15 01          BCLR        0x2,PORTB
0b17 b6 00          LDA         PORTA
0b19 14 01          BSET        0x2,PORTB
0b1b a4 0f          AND         #0xf
0b1d 97             TAX
0b1e 58             ASLX
0b1f 58             ASLX
0b20 58             ASLX
0b21 bf 52          STX         DAT_0052
0b23 48             ASLA
0b24 bb 52          ADD         DAT_0052
0b26 bb 21          ADD         DAT_0021
0b28 b7 21          STA         DAT_0021
0b2a a6 80          LDA         #0x80
0b2c b7 00          STA         PORTA
0b2e 15 01          BCLR        0x2,PORTB
0b30 b6 00          LDA         PORTA
0b32 14 01          BSET        0x2,PORTB
0b34 a4 0f          AND         #0xf
0b36 b7 22          STA         DAT_0022
0b38 a6 90          LDA         #0x90
0b3a b7 00          STA         PORTA
0b3c 15 01          BCLR        0x2,PORTB
0b3e b6 00          LDA         PORTA
0b40 14 01          BSET        0x2,PORTB
0b42 a4 0f          AND         #0xf
0b44 97             TAX
0b45 58             ASLX
0b46 58             ASLX
0b47 58             ASLX
0b48 bf 52          STX         DAT_0052
0b4a 48             ASLA
0b4b bb 52          ADD         DAT_0052
0b4d bb 22          ADD         DAT_0022
0b4f b7 22          STA         DAT_0022
0b51 a6 60          LDA         #0x60
0b53 b7 00          STA         PORTA
0b55 15 01          BCLR        0x2,PORTB
0b57 b6 00          LDA         PORTA
0b59 14 01          BSET        0x2,PORTB
0b5b a4 0f          AND         #0xf
0b5d b7 23          STA         DAT_0023
0b5f a6 70          LDA         #0x70
0b61 b7 00          STA         PORTA
0b63 15 01          BCLR        0x2,PORTB
0b65 b6 00          LDA         PORTA
0b67 14 01          BSET        0x2,PORTB
0b69 a4 0f          AND         #0xf
0b6b 97             TAX
0b6c 58             ASLX
0b6d 58             ASLX
0b6e 58             ASLX
0b6f bf 52          STX         DAT_0052
0b71 48             ASLA
0b72 bb 52          ADD         DAT_0052
0b74 bb 23          ADD         DAT_0023
0b76 b7 23          STA         DAT_0023
0b78 a6 40          LDA         #0x40
0b7a b7 00          STA         PORTA
0b7c 15 01          BCLR        0x2,PORTB
0b7e b6 00          LDA         PORTA
0b80 14 01          BSET        0x2,PORTB
0b82 a4 0f          AND         #0xf
0b84 b7 24          STA         DAT_0024
```

```
0b86 a6 50          LDA         #0x50
0b88 b7 00          STA         PORTA
0b8a 15 01          BCLR        0x2,PORTB
0b8c b6 00          LDA         PORTA
0b8e 14 01          BSET        0x2,PORTB
0b90 a4 0f          AND         #0xf
0b92 97             TAX
0b93 58             ASLX
0b94 58             ASLX
0b95 58             ASLX
0b96 bf 52          STX         DAT_0052
0b98 48             ASLA
0b99 bb 52          ADD         DAT_0052
0b9b bb 24          ADD         DAT_0024
0b9d b7 24          STA         DAT_0024
0b9f a6 20          LDA         #0x20
0ba1 b7 00          STA         PORTA
0ba3 15 01          BCLR        0x2,PORTB
0ba5 b6 00          LDA         PORTA
0ba7 14 01          BSET        0x2,PORTB
0ba9 a4 0f          AND         #0xf
0bab b7 25          STA         DAT_0025
0bad a6 30          LDA         #0x30
0baf b7 00          STA         PORTA
0bb1 15 01          BCLR        0x2,PORTB
0bb3 b6 00          LDA         PORTA
0bb5 14 01          BSET        0x2,PORTB
0bb7 a4 0f          AND         #0xf
0bb9 97             TAX
0bba 58             ASLX
0bbb 58             ASLX
0bbc 58             ASLX
0bbd bf 52          STX         DAT_0052
0bbf 48             ASLA
0bc0 bb 52          ADD         DAT_0052
0bc2 bb 25          ADD         DAT_0025
0bc4 b7 25          STA         DAT_0025
0bc6 a6 00          LDA         #0x0
0bc8 b7 00          STA         PORTA
0bca 15 01          BCLR        0x2,PORTB
0bcc b6 00          LDA         PORTA
0bce 14 01          BSET        0x2,PORTB
0bd0 a4 0f          AND         #0xf
0bd2 a4 08          AND         #0x8
0bd4 a1 08          CMP         #0x8
0bd6 26 03          BNE         LAB_0bdb
0bd8 cc 0a c0       JMP         FUN_0ac0

                    LAB_0bdb                                XREF[1]:    0bd6(j)
0bdb 3f 04          CLR         DDRA
0bdd 81             RTS
0bde 00             ??          00h
0bdf 00             ??          00h
0be0 00             ??          00h
0be1 00             ??          00h
0be2 00             ??          00h
0be3 00             ??          00h
0be4 00             ??          00h
0be5 00             ??          00h
0be6 00             ??          00h
0be7 00             ??          00h
0be8 00             ??          00h
0be9 00             ??          00h
0bea 00             ??          00h
0beb 00             ??          00h
0bec 00             ??          00h
0bed 00             ??          00h
0bee 00             ??          00h
0bef 00             ??          00h
0bf0 00             ??          00h
0bf1 00             ??          00h
0bf2 00             ??          00h
0bf3 00             ??          00h
0bf4 00             ??          00h
0bf5 00             ??          00h
0bf6 00             ??          00h
0bf7 00             ??          00h
0bf8 00             ??          00h
0bf9 00             ??          00h
0bfa 00             ??          00h
0bfb 00             ??          00h
0bfc 00             ??          00h
0bfd 00             ??          00h
0bfe 00             ??          00h
0bff 00             ??          00h
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0c00 00             ??         00h
0c01 00             ??         00h
0c02 00             ??         00h
0c03 00             ??         00h
0c04 00             ??         00h
0c05 00             ??         00h
0c06 00             ??         00h
0c07 00             ??         00h
0c08 00             ??         00h
0c09 00             ??         00h
0c0a 00             ??         00h
0c0b 00             ??         00h
0c0c 00             ??         00h
0c0d 00             ??         00h
0c0e 00             ??         00h
0c0f 00             ??         00h
0c10 00             ??         00h
0c11 00             ??         00h
0c12 00             ??         00h
0c13 00             ??         00h
0c14 00             ??         00h
0c15 00             ??         00h
0c16 00             ??         00h
0c17 00             ??         00h
0c18 00             ??         00h
0c19 00             ??         00h
0c1a 00             ??         00h
0c1b 00             ??         00h
0c1c 00             ??         00h
0c1d 00             ??         00h
0c1e 00             ??         00h
0c1f 00             ??         00h
0c20 00             ??         00h
0c21 00             ??         00h
0c22 00             ??         00h
0c23 00             ??         00h
0c24 00             ??         00h
0c25 00             ??         00h
0c26 00             ??         00h
0c27 00             ??         00h
0c28 00             ??         00h
0c29 00             ??         00h
0c2a 00             ??         00h
0c2b 00             ??         00h
0c2c 00             ??         00h
0c2d 00             ??         00h
0c2e 00             ??         00h
0c2f 00             ??         00h
0c30 00             ??         00h
0c31 00             ??         00h
0c32 00             ??         00h
0c33 00             ??         00h
0c34 00             ??         00h
0c35 00             ??         00h
0c36 00             ??         00h
0c37 00             ??         00h
0c38 00             ??         00h
0c39 00             ??         00h
0c3a 00             ??         00h
0c3b 00             ??         00h
0c3c 00             ??         00h
0c3d 00             ??         00h
0c3e 00             ??         00h
0c3f 00             ??         00h
0c40 00             ??         00h
0c41 00             ??         00h
0c42 00             ??         00h
0c43 00             ??         00h
0c44 00             ??         00h
0c45 00             ??         00h
0c46 00             ??         00h
0c47 00             ??         00h
0c48 00             ??         00h
0c49 00             ??         00h
0c4a 00             ??         00h
0c4b 00             ??         00h
0c4c 00             ??         00h
0c4d 00             ??         00h
0c4e 00             ??         00h
0c4f 00             ??         00h
0c50 00             ??         00h
0c51 00             ??         00h
0c52 00             ??         00h
0c53 00             ??         00h
0c54 00             ??         00h
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0c55 00             ??          00h
0c56 00             ??          00h
0c57 00             ??          00h
0c58 00             ??          00h
0c59 00             ??          00h
0c5a 00             ??          00h
0c5b 00             ??          00h
0c5c 00             ??          00h
0c5d 00             ??          00h
0c5e 00             ??          00h
0c5f 00             ??          00h
0c60 00             ??          00h
0c61 00             ??          00h
0c62 00             ??          00h
0c63 00             ??          00h
0c64 00             ??          00h
0c65 00             ??          00h
0c66 00             ??          00h
0c67 00             ??          00h
0c68 00             ??          00h
0c69 00             ??          00h
0c6a 00             ??          00h
0c6b 00             ??          00h
0c6c 00             ??          00h
0c6d 00             ??          00h
0c6e 00             ??          00h
0c6f 00             ??          00h
0c70 00             ??          00h
0c71 00             ??          00h
0c72 00             ??          00h
0c73 00             ??          00h
0c74 00             ??          00h
0c75 00             ??          00h
0c76 00             ??          00h
0c77 00             ??          00h
0c78 00             ??          00h
0c79 00             ??          00h
0c7a 00             ??          00h
0c7b 00             ??          00h
0c7c 00             ??          00h
0c7d 00             ??          00h
0c7e 00             ??          00h
0c7f 00             ??          00h
0c80 00             ??          00h
0c81 00             ??          00h
0c82 00             ??          00h
0c83 00             ??          00h
0c84 00             ??          00h
0c85 00             ??          00h
0c86 00             ??          00h
0c87 00             ??          00h
0c88 00             ??          00h
0c89 00             ??          00h
0c8a 00             ??          00h
0c8b 00             ??          00h
0c8c 00             ??          00h
0c8d 00             ??          00h
0c8e 00             ??          00h
0c8f 00             ??          00h
0c90 00             ??          00h
0c91 00             ??          00h
0c92 00             ??          00h
0c93 00             ??          00h
0c94 00             ??          00h
0c95 00             ??          00h
0c96 00             ??          00h
0c97 00             ??          00h
0c98 00             ??          00h
0c99 00             ??          00h
0c9a 00             ??          00h
0c9b 00             ??          00h
0c9c 00             ??          00h
0c9d 00             ??          00h
0c9e 00             ??          00h
0c9f 00             ??          00h
0ca0 00             ??          00h
0ca1 00             ??          00h
0ca2 00             ??          00h
0ca3 00             ??          00h
0ca4 00             ??          00h
0ca5 00             ??          00h
0ca6 00             ??          00h
0ca7 00             ??          00h
0ca8 00             ??          00h
0ca9 00             ??          00h
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0caa 00             ??         00h
0cab 00             ??         00h
0cac 00             ??         00h
0cad 00             ??         00h
0cae 00             ??         00h
0caf 00             ??         00h
0cb0 00             ??         00h
0cb1 00             ??         00h
0cb2 00             ??         00h
0cb3 00             ??         00h
0cb4 00             ??         00h
0cb5 00             ??         00h
0cb6 00             ??         00h
0cb7 00             ??         00h
0cb8 00             ??         00h
0cb9 00             ??         00h
0cba 00             ??         00h
0cbb 00             ??         00h
0cbc 00             ??         00h
0cbd 00             ??         00h
0cbe 00             ??         00h
0cbf 00             ??         00h
0cc0 00             ??         00h
0cc1 00             ??         00h
0cc2 00             ??         00h
0cc3 00             ??         00h
0cc4 00             ??         00h
0cc5 00             ??         00h
0cc6 00             ??         00h
0cc7 00             ??         00h
0cc8 00             ??         00h
0cc9 00             ??         00h
0cca 00             ??         00h
0ccb 00             ??         00h
0ccc 00             ??         00h
0ccd 00             ??         00h
0cce 00             ??         00h
0ccf 00             ??         00h
0cd0 00             ??         00h
0cd1 00             ??         00h
0cd2 00             ??         00h
0cd3 00             ??         00h
0cd4 00             ??         00h
0cd5 00             ??         00h
0cd6 00             ??         00h
0cd7 00             ??         00h
0cd8 00             ??         00h
0cd9 00             ??         00h
0cda 00             ??         00h
0cdb 00             ??         00h
0cdc 00             ??         00h
0cdd 00             ??         00h
0cde 00             ??         00h
0cdf 00             ??         00h
0ce0 00             ??         00h
0ce1 00             ??         00h
0ce2 00             ??         00h
0ce3 00             ??         00h
0ce4 00             ??         00h
0ce5 00             ??         00h
0ce6 00             ??         00h
0ce7 00             ??         00h
0ce8 00             ??         00h
0ce9 00             ??         00h
0cea 00             ??         00h
0ceb 00             ??         00h
0cec 00             ??         00h
0ced 00             ??         00h
0cee 00             ??         00h
0cef 00             ??         00h
0cf0 00             ??         00h
0cf1 00             ??         00h
0cf2 00             ??         00h
0cf3 00             ??         00h
0cf4 00             ??         00h
0cf5 00             ??         00h
0cf6 00             ??         00h
0cf7 00             ??         00h
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                    DAT_0cf8                                XREF[27]:   FUN_01ed:021a(*),
                                                                        FUN_01ed:0229(*),
                                                                        FUN_01ed:02b9(*),
                                                                        FUN_01ed:02d7(*),
                                                                        FUN_01ed:02f9(*),
                                                                        FUN_01ed:030b(*),
                                                                        FUN_01ed:0343(*),
                                                                        FUN_01ed:0352(*),
                                                                        FUN_01ed:0366(*),
                                                                        FUN_01ed:0375(*),
                                                                        Read_CHR_OCHR:0393(*),
                                                                        Read_CHR_OCHR:03a2(*),
                                                                        Read_CHR_OCHR:03b4(*),
                                                                        Read_CHR_OCHR:03c1(*),
                                                                        Read_CHR_OCHR:03d1(*),
                                                                        Read_CHR_OCHR:03e2(*),
                                                                        Read_CHR_OCHR:0408(*),
                                                                        Read_CHR_OCHR:0416(*),
                                                                        Read_CHR_OCHR:0426(*),
                                                                        Read_CHR_OCHR:044b(*), [more]
0cf8 00             ??          00h
0cf9 20             ??          20h
0cfa 28             ??          28h    (
0cfb 2a             ??          2Ah    *
0cfc 50             ??          50h    P
0cfd 51             ??          51h    Q
0cfe 54             ??          54h    T
0cff 55             ??          55h    U
0d00 5f             ??          5Fh    _
0d01 66             ??          66h    f
0d02 6e             ??          6Eh    n
0d03 4e             ??          4Eh    N
0d04 5d             ??          5Dh    ]
0d05 08             ??          08h
0d06 44             ??          44h    D
0d07 4f             ??          4Fh    O
0d08 77             ??          77h    w
0d09 11             ??          11h
0d0a 6b             ??          6Bh    k
0d0b 3b             ??          3Bh    ;
0d0c 1d             ??          1Dh
0d0d 3e             ??          3Eh    >
0d0e 7e             ??          7Eh    ~
0d0f 13             ??          13h
0d10 7f             ??          7Fh
0d11 3f             ??          3Fh    ?

                    DAT_0d12                                XREF[2]:    Read_Bytes_from_Port_A:05e8(*),
                                                                        Read_Bytes_from_Port_A:05ee(*)
0d12 3a             ??          3Ah    :
0d13 3a             ??          3Ah    :
0d14 52             ??          52h    R
0d15 3a             ??          3Ah    :
0d16 3a             ??          3Ah    :
0d17 57             ??          57h    W
0d18 52             ??          52h    R
0d19 57             ??          57h    W

                    DAT_0d1a                                XREF[2]:    Read_Bytes_from_Port_A:05fa(*),
                                                                        Read_Bytes_from_Port_A:0600(*)
0d1a 43             ??          43h    C
0d1b 44             ??          44h    D
0d1c 44             ??          44h    D
0d1d 44             ??          44h    D
0d1e 43             ??          43h    C
0d1f 41             ??          41h    A
0d20 44             ??          44h    D
0d21 41             ??          41h    A

                    DAT_0d22                                XREF[8]:    FUN_01b4:01b7(*),
                                                                        FUN_01b4:01bd(*),
                                                                        FUN_01b4:01c5(*),
                                                                        FUN_01b4:01cb(*),
                                                                        FUN_01b4:01d3(*),
                                                                        FUN_01b4:01d9(*),
                                                                        FUN_01b4:01e1(*),
                                                                        FUN_01b4:01e7(*)
0d22 00             ??          00h
0d23 00             ??          00h
0d24 55             ??          55h    U
0d25 11             ??          11h
0d26 55             ??          55h    U
0d27 11             ??          11h
0d28 55             ??          55h    U
```

```
0d29 11             ??         11h
0d2a 55             ??         55h    U
0d2b 11             ??         11h
0d2c 55             ??         55h    U
0d2d 11             ??         11h
0d2e 55             ??         55h    U
0d2f 11             ??         11h
0d30 55             ??         55h    U
0d31 11             ??         11h
0d32 4d             ??         4Dh    M
0d33 9a             ??         9Ah
0d34 41             ??         41h    A
0d35 82             ??         82h
0d36 45             ??         45h    E
0d37 99             ??         99h
0d38 45             ??         45h    E
0d39 8b             ??         8Bh
0d3a 49             ??         49h    I
0d3b 83             ??         83h
0d3c 4c             ??         4Ch    L
0d3d 83             ??         83h
0d3e 4c             ??         4Ch    L
0d3f 9b             ??         9Bh
0d40 45             ??         45h    E
0d41 82             ??         82h
0d42 88             ??         88h
0d43 11             ??         11h
0d44 8d             ??         8Dh
0d45 11             ??         11h
0d46 88             ??         88h
0d47 1b             ??         1Bh
0d48 8d             ??         8Dh
0d49 1b             ??         1Bh
0d4a 88             ??         88h
0d4b b1             ??         B1h
0d4c 8d             ??         8Dh
0d4d b1             ??         B1h
0d4e 88             ??         88h
0d4f bb             ??         BBh
0d50 8d             ??         8Dh
0d51 bb             ??         BBh
0d52 d8             ??         D8h
0d53 11             ??         11h
0d54 dd             ??         DDh
0d55 11             ??         11h
0d56 d8             ??         D8h
0d57 1b             ??         1Bh
0d58 dd             ??         DDh
0d59 1b             ??         1Bh
0d5a d8             ??         D8h
0d5b b1             ??         B1h
0d5c dd             ??         DDh
0d5d b1             ??         B1h
0d5e d8             ??         D8h
0d5f bb             ??         BBh
0d60 dd             ??         DDh
0d61 bb             ??         BBh
0d62 00             ??         00h
0d63 00             ??         00h
0d64 08             ??         08h
0d65 00             ??         00h
0d66 0e             ??         0Eh
0d67 00             ??         00h
0d68 0f             ??         0Fh
0d69 01             ??         01h
0d6a 0f             ??         0Fh
0d6b 07             ??         07h
0d6c 0f             ??         0Fh
0d6d 1f             ??         1Fh
0d6e 0f             ??         0Fh
0d6f 7f             ??         7Fh
0d70 8f             ??         8Fh
0d71 ff             ??         FFh
0d72 ef             ??         EFh
0d73 ff             ??         FFh
0d74 ff             ??         FFh
0d75 ff             ??         FFh
0d76 aa             ??         AAh
0d77 55             ??         55h    U
0d78 88             ??         88h
0d79 11             ??         11h
0d7a 00             ??         00h
0d7b 40             ??         40h    @
0d7c 80             ??         80h
0d7d 01             ??         01h
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```
0d7e 00             ??         00h
0d7f 20             ??         20h
0d80 02             ??         02h
0d81 40             ??         40h    @
0d82 0d             ??         0Dh
0d83 1a             ??         1Ah
0d84 03             ??         03h
0d85 02             ??         02h
0d86 05             ??         05h
0d87 19             ??         19h
0d88 05             ??         05h
0d89 0b             ??         0Bh
0d8a 09             ??         09h
0d8b 03             ??         03h
0d8c 0c             ??         0Ch
0d8d 0b             ??         0Bh
0d8e 0c             ??         0Ch
0d8f 1b             ??         1Bh
0d90 05             ??         05h
0d91 02             ??         02h
0d92 0d             ??         0Dh
0d93 1b             ??         1Bh
0d94 0d             ??         0Dh
0d95 0b             ??         0Bh
0d96 00             ??         00h
0d97 00             ??         00h
0d98 0d             ??         0Dh
0d99 11             ??         11h
0d9a 40             ??         40h    @
0d9b 80             ??         80h
0d9c 4d             ??         4Dh    M
0d9d 91             ??         91h
0d9e 00             ??         00h
0d9f 00             ??         00h
0da0 55             ??         55h    U
0da1 11             ??         11h
0da2 95             ??         95h
0da3 ba             ??         BAh
0da4 d5             ??         D5h
0da5 83             ??         83h
0da6 1d             ??         1Dh
0da7 3b             ??         3Bh    ;
0da8 54             ??         54h    T
0da9 a8             ??         A8h
0daa 1d             ??         1Dh
0dab 3a             ??         3Ah    :
0dac d4             ??         D4h
0dad a8             ??         A8h
0dae d4             ??         D4h
0daf 80             ??         80h
0db0 54             ??         54h    T
0db1 ab             ??         ABh
0db2 c1             ??         C1h
0db3 83             ??         83h
0db4 1c             ??         1Ch
0db5 38             ??         38h    8
0db6 1c             ??         1Ch
0db7 b0             ??         B0h
0db8 c2             ??         C2h
0db9 84             ??         84h
0dba 40             ??         40h    @
0dbb a8             ??         A8h
0dbc 63             ??         63h    c
0dbd 82             ??         82h
0dbe 61             ??         61h    a
0dbf 86             ??         86h
0dc0 55             ??         55h    U
0dc1 aa             ??         AAh
0dc2 d5             ??         D5h
0dc3 81             ??         81h
0dc4 55             ??         55h    U
0dc5 ae             ??         AEh
0dc6 d5             ??         D5h
0dc7 85             ??         85h
0dc8 d4             ??         D4h
0dc9 2b             ??         2Bh    +
0dca 1c             ??         1Ch
0dcb 10             ??         10h
0dcc 41             ??         41h    A
0dcd aa             ??         AAh
0dce 42             ??         42h    B
0dcf c0             ??         C0h
0dd0 41             ??         41h    A
0dd1 c6             ??         C6h
0dd2 22             ??         22h    "
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0dd3 44             ??         44h    D
0dd4 22             ??         22h    "
0dd5 10             ??         10h
0dd6 16             ??         16h
0dd7 68             ??         68h    h
0dd8 dc             ??         DCh
0dd9 99             ??         99h
0dda 57             ??         57h    W
0ddb ea             ??         EAh
0ddc 13             ??         13h
0ddd 43             ??         43h    C

                    DAT_0dde                                XREF[1]:     FUN_0715:0789(*)
0dde 00             ??         00h
0ddf 00             ??         00h
0de0 38             ??         38h    8
0de1 3e             ??         3Eh    >
0de2 3c             ??         3Ch    <
0de3 3e             ??         3Eh    >
0de4 3c             ??         3Ch    <
0de5 3e             ??         3Eh    >
0de6 3e             ??         3Eh    >
0de7 3c             ??         3Ch    <
0de8 3e             ??         3Eh    >
0de9 3c             ??         3Ch    <
0dea 3e             ??         3Eh    >

                    DAT_0deb                                XREF[2]:     FUN_0803:084b(*),
                                                                         FUN_0803:0853(*)
0deb 00             ??         00h
0dec 00             ??         00h
0ded 00             ??         00h
0dee 00             ??         00h
0def 00             ??         00h
0df0 3e             ??         3Eh    >
0df1 00             ??         00h
0df2 76             ??         76h    v
0df3 00             ??         00h
0df4 b4             ??         B4h
0df5 00             ??         00h
0df6 f0             ??         F0h
0df7 01             ??         01h
0df8 2e             ??         2Eh    .
0df9 01             ??         01h
0dfa 6a             ??         6Ah    j
0dfb 01             ??         01h
0dfc a8             ??         A8h
0dfd 01             ??         01h
0dfe e6             ??         E6h
0dff 02             ??         02h
0e00 22             ??         22h    "
0e01 02             ??         02h
0e02 60             ??         60h    `
0e03 02             ??         02h
0e04 9c             ??         9Ch
0e05 00             ??         00h
0e06 00             ??         00h
0e07 00             ??         00h
0e08 00             ??         00h
0e09 00             ??         00h
0e0a 3e             ??         3Eh    >
0e0b 00             ??         00h
0e0c 78             ??         78h    x
0e0d 00             ??         00h
0e0e b6             ??         B6h
0e0f 00             ??         00h
0e10 f2             ??         F2h
0e11 01             ??         01h
0e12 30             ??         30h    0
0e13 01             ??         01h
0e14 6c             ??         6Ch    l
0e15 01             ??         01h
0e16 aa             ??         AAh
0e17 01             ??         01h
0e18 e8             ??         E8h
0e19 02             ??         02h
0e1a 24             ??         24h    $
0e1b 02             ??         02h
0e1c 62             ??         62h    b
0e1d 02             ??         02h
0e1e 9e             ??         9Eh

                    DAT_0e1f                                XREF[2]:     FUN_0803:0881(*),
                                                                         FUN_0803:0887(*)
0e1f 00             ??         00h
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0e20 00             ??         00h
0e21 0e             ??         0Eh
0e22 10             ??         10h
0e23 1c             ??         1Ch
0e24 20             ??         20h
0e25 2a             ??         2Ah    *
0e26 30             ??         30h    0
0e27 38             ??         38h    8
0e28 40             ??         40h    @
0e29 46             ??         46h    F
0e2a 50             ??         50h    P
0e2b 54             ??         54h    T
0e2c 60             ??         60h    `
0e2d 62             ??         62h    b
0e2e 70             ??         70h    p
0e2f 70             ??         70h    p
0e30 80             ??         80h
0e31 7e             ??         7Eh    ~
0e32 90             ??         90h
0e33 8c             ??         8Ch
0e34 a0             ??         A0h
0e35 9a             ??         9Ah
0e36 b0             ??         B0h

                    DAT_0e37                                XREF[1]:    FUN_08f9:0919(*)
0e37 00             ??         00h
0e38 1f             ??         1Fh
0e39 1c             ??         1Ch
0e3a 1f             ??         1Fh
0e3b 1e             ??         1Eh
0e3c 1f             ??         1Fh
0e3d 1e             ??         1Eh
0e3e 1f             ??         1Fh
0e3f 1f             ??         1Fh
0e40 1e             ??         1Eh
0e41 1f             ??         1Fh
0e42 1e             ??         1Eh
0e43 1f             ??         1Fh

                    DAT_0e44                                XREF[18]:   FUN_01ed:02f3(*),
                                                                        FUN_01ed:0305(*),
                                                                        FUN_01ed:033d(*),
                                                                        FUN_01ed:034c(*),
                                                                        FUN_01ed:0360(*),
                                                                        FUN_01ed:036f(*),
                                                                        FUN_09ee:0a1b(*),
                                                                        FUN_09ee:0a27(*),
                                                                        FUN_09ee:0a35(*),
                                                                        FUN_09ee:0a41(*),
                                                                        FUN_09ee:0a4f(*),
                                                                        FUN_09ee:0a5b(*),
                                                                        FUN_09ee:0a69(*),
                                                                        FUN_09ee:0a75(*),
                                                                        FUN_09ee:0a83(*),
                                                                        FUN_09ee:0a8f(*),
                                                                        FUN_09ee:0a9d(*),
                                                                        FUN_09ee:0aaa(*)
0e44 00             ??         00h
0e45 00             ??         00h
0e46 00             ??         00h
0e47 01             ??         01h
0e48 00             ??         00h
0e49 02             ??         02h
0e4a 00             ??         00h
0e4b 03             ??         03h
0e4c 00             ??         00h
0e4d 04             ??         04h
0e4e 00             ??         00h
0e4f 05             ??         05h
0e50 00             ??         00h
0e51 06             ??         06h
0e52 00             ??         00h
0e53 07             ??         07h
0e54 00             ??         00h
0e55 08             ??         08h
0e56 00             ??         00h
0e57 09             ??         09h
0e58 01             ??         01h
0e59 00             ??         00h
0e5a 01             ??         01h
0e5b 01             ??         01h
0e5c 01             ??         01h
0e5d 02             ??         02h
0e5e 01             ??         01h
0e5f 03             ??         03h
```

```
0e60 01             ??         01h
0e61 04             ??         04h
0e62 01             ??         01h
0e63 05             ??         05h
0e64 01             ??         01h
0e65 06             ??         06h
0e66 01             ??         01h
0e67 07             ??         07h
0e68 01             ??         01h
0e69 08             ??         08h
0e6a 01             ??         01h
0e6b 09             ??         09h
0e6c 02             ??         02h
0e6d 00             ??         00h
0e6e 02             ??         02h
0e6f 01             ??         01h
0e70 02             ??         02h
0e71 02             ??         02h
0e72 02             ??         02h
0e73 03             ??         03h
0e74 02             ??         02h
0e75 04             ??         04h
0e76 02             ??         02h
0e77 05             ??         05h
0e78 02             ??         02h
0e79 06             ??         06h
0e7a 02             ??         02h
0e7b 07             ??         07h
0e7c 02             ??         02h
0e7d 08             ??         08h
0e7e 02             ??         02h
0e7f 09             ??         09h
0e80 03             ??         03h
0e81 00             ??         00h
0e82 03             ??         03h
0e83 01             ??         01h
0e84 03             ??         03h
0e85 02             ??         02h
0e86 03             ??         03h
0e87 03             ??         03h
0e88 03             ??         03h
0e89 04             ??         04h
0e8a 03             ??         03h
0e8b 05             ??         05h
0e8c 03             ??         03h
0e8d 06             ??         06h
0e8e 03             ??         03h
0e8f 07             ??         07h
0e90 03             ??         03h
0e91 08             ??         08h
0e92 03             ??         03h
0e93 09             ??         09h
0e94 04             ??         04h
0e95 00             ??         00h
0e96 04             ??         04h
0e97 01             ??         01h
0e98 04             ??         04h
0e99 02             ??         02h
0e9a 04             ??         04h
0e9b 03             ??         03h
0e9c 04             ??         04h
0e9d 04             ??         04h
0e9e 04             ??         04h
0e9f 05             ??         05h
0ea0 04             ??         04h
0ea1 06             ??         06h
0ea2 04             ??         04h
0ea3 07             ??         07h
0ea4 04             ??         04h
0ea5 08             ??         08h
0ea6 04             ??         04h
0ea7 09             ??         09h
0ea8 05             ??         05h
0ea9 00             ??         00h
0eaa 05             ??         05h
0eab 01             ??         01h
0eac 05             ??         05h
0ead 02             ??         02h
0eae 05             ??         05h
0eaf 03             ??         03h
0eb0 05             ??         05h
0eb1 04             ??         04h
0eb2 05             ??         05h
0eb3 05             ??         05h
0eb4 05             ??         05h
```

```
0eb5 06             ??          06h
0eb6 05             ??          05h
0eb7 07             ??          07h
0eb8 05             ??          05h
0eb9 08             ??          08h
0eba 05             ??          05h
0ebb 09             ??          09h
0ebc 06             ??          06h
0ebd 00             ??          00h
0ebe 06             ??          06h
0ebf 01             ??          01h
0ec0 06             ??          06h
0ec1 02             ??          02h
0ec2 06             ??          06h
0ec3 03             ??          03h
0ec4 06             ??          06h
0ec5 04             ??          04h
0ec6 06             ??          06h
0ec7 05             ??          05h
0ec8 06             ??          06h
0ec9 06             ??          06h
0eca 06             ??          06h
0ecb 07             ??          07h
0ecc 06             ??          06h
0ecd 08             ??          08h
0ece 06             ??          06h
0ecf 09             ??          09h
0ed0 07             ??          07h
0ed1 00             ??          00h
0ed2 07             ??          07h
0ed3 01             ??          01h
0ed4 07             ??          07h
0ed5 02             ??          02h
0ed6 07             ??          07h
0ed7 03             ??          03h
0ed8 07             ??          07h
0ed9 04             ??          04h
0eda 07             ??          07h
0edb 05             ??          05h
0edc 07             ??          07h
0edd 06             ??          06h
0ede 07             ??          07h
0edf 07             ??          07h
0ee0 07             ??          07h
0ee1 08             ??          08h
0ee2 07             ??          07h
0ee3 09             ??          09h
0ee4 08             ??          08h
0ee5 00             ??          00h
0ee6 08             ??          08h
0ee7 01             ??          01h
0ee8 08             ??          08h
0ee9 02             ??          02h
0eea 08             ??          08h
0eeb 03             ??          03h
0eec 08             ??          08h
0eed 04             ??          04h
0eee 08             ??          08h
0eef 05             ??          05h
0ef0 08             ??          08h
0ef1 06             ??          06h
0ef2 08             ??          08h
0ef3 07             ??          07h
0ef4 08             ??          08h
0ef5 08             ??          08h
0ef6 08             ??          08h
0ef7 09             ??          09h
0ef8 09             ??          09h
0ef9 00             ??          00h
0efa 09             ??          09h
0efb 01             ??          01h
0efc 09             ??          09h
0efd 02             ??          02h
0efe 09             ??          09h
0eff 03             ??          03h
0f00 09             ??          09h
0f01 04             ??          04h
0f02 09             ??          09h
0f03 05             ??          05h
0f04 09             ??          09h
0f05 06             ??          06h
0f06 09             ??          09h
0f07 07             ??          07h
0f08 09             ??          09h
0f09 08             ??          08h
```

```
0f0a 09             ??          09h
0f0b 09             ??          09h

                    DAT_0f0c                                    XREF[1]:    Read_Port_D_Update_CLR:09e6(*)
0f0c 01             ??          01h
0f0d 02             ??          02h
0f0e 04             ??          04h
0f0f 08             ??          08h
0f10 00             ??          00h
0f11 00             ??          00h
0f12 00             ??          00h
0f13 00             ??          00h
0f14 00             ??          00h
0f15 00             ??          00h
0f16 00             ??          00h
0f17 00             ??          00h
0f18 00             ??          00h
0f19 00             ??          00h
0f1a 00             ??          00h
0f1b 00             ??          00h
0f1c 00             ??          00h
0f1d 00             ??          00h
0f1e 00             ??          00h
0f1f 00             ??          00h
0f20 00             ??          00h
0f21 00             ??          00h
0f22 00             ??          00h
0f23 00             ??          00h
0f24 00             ??          00h
0f25 00             ??          00h
0f26 00             ??          00h
0f27 00             ??          00h
0f28 00             ??          00h
0f29 00             ??          00h
0f2a 00             ??          00h
0f2b 00             ??          00h
0f2c 00             ??          00h
0f2d 00             ??          00h
0f2e 00             ??          00h
0f2f 00             ??          00h
0f30 00             ??          00h
0f31 00             ??          00h
0f32 00             ??          00h
0f33 00             ??          00h
0f34 00             ??          00h
0f35 00             ??          00h
0f36 00             ??          00h
0f37 00             ??          00h

                    Mask bits 0x25 = 0010_0101
                    CLK = 0 (Clock Oscilation type) 0=Crystal (1=resistor capacit...
                    TOPT = 0 (Timer Mask/Programmable option) (0=All TCR bits are...
                    CLS =1 (Timer Clock Source) (1=External TIMER PIN. 0=Internal...
                    TIE = 0 (Timer External Input Enable)
                    SNM = 0 (Secure/Non-Secure Mode Option)
                    P2 = 1
                    P1 = 0
                    P0 = 1

                    P2-P0 = (Prescaler option) => 101 => Divide by 32.

                    MOR_Mask_Option_Register
0f38 25             db          25h                             Mask Option Register
                    *** START: Unused hole from 0xF39 to 0xF7F ***
0f39 00             db          0h
0f3a 00             db          0h
0f3b 00             db          0h
0f3c 00             db          0h
0f3d 00             db          0h
0f3e 00             db          0h
0f3f 00             db          0h
0f40 00             db          0h
0f41 00             db          0h
0f42 00             db          0h
0f43 00             db          0h
0f44 00             db          0h
0f45 00             db          0h
0f46 00             db          0h
0f47 00             db          0h
0f48 00             db          0h
0f49 00             db          0h
0f4a 00             db          0h
0f4b 00             db          0h
0f4c 00             db          0h
0f4d 00             db          0h
```

```
0f4e 00             db          0h
0f4f 00             db          0h
0f50 00             db          0h
0f51 00             db          0h
0f52 00             db          0h
0f53 00             db          0h
0f54 00             db          0h
0f55 00             db          0h
0f56 00             db          0h
0f57 00             db          0h
0f58 00             db          0h
0f59 00             db          0h
0f5a 00             db          0h
0f5b 00             db          0h
0f5c 00             db          0h
0f5d 00             db          0h
0f5e 00             db          0h
0f5f 00             db          0h
0f60 00             db          0h
0f61 00             db          0h
0f62 00             db          0h
0f63 00             db          0h
0f64 00             db          0h
0f65 00             db          0h
0f66 00             db          0h
0f67 00             db          0h
0f68 00             db          0h
0f69 00             db          0h
0f6a 00             db          0h
0f6b 00             db          0h
0f6c 00             db          0h
0f6d 00             db          0h
0f6e 00             db          0h
0f6f 00             db          0h
0f70 00             db          0h
0f71 00             db          0h
0f72 00             db          0h
0f73 00             db          0h
0f74 00             db          0h
0f75 00             db          0h
0f76 00             db          0h
0f77 00             db          0h
0f78 00             db          0h
0f79 00             db          0h
0f7a 00             db          0h
0f7b 00             db          0h
0f7c 00             db          0h
0f7d 00             db          0h
0f7e 00             db          0h
0f7f 00             db          0h
                *** END: Unused hole from 0xF39 to 0xF7F ***
0f80 00             ??          00h
0f81 00             ??          00h
0f82 00             ??          00h
0f83 00             ??          00h
0f84 00             ??          00h
0f85 00             ??          00h
0f86 00             ??          00h
0f87 00             ??          00h
0f88 00             ??          00h
0f89 00             ??          00h
0f8a 00             ??          00h
0f8b 00             ??          00h
0f8c 00             ??          00h
0f8d 00             ??          00h
0f8e 00             ??          00h
0f8f 00             ??          00h
0f90 00             ??          00h
0f91 00             ??          00h
0f92 00             ??          00h
0f93 00             ??          00h
0f94 00             ??          00h
0f95 00             ??          00h
0f96 00             ??          00h
0f97 00             ??          00h
0f98 00             ??          00h
0f99 00             ??          00h
0f9a 00             ??          00h
0f9b 00             ??          00h
0f9c 00             ??          00h
0f9d 00             ??          00h
0f9e 00             ??          00h
0f9f 00             ??          00h
0fa0 00             ??          00h
0fa1 00             ??          00h
```

```
0fa2 00             ??         00h
0fa3 00             ??         00h
0fa4 00             ??         00h
0fa5 00             ??         00h
0fa6 00             ??         00h
0fa7 00             ??         00h
0fa8 00             ??         00h
0fa9 00             ??         00h
0faa 00             ??         00h
0fab 00             ??         00h
0fac 00             ??         00h
0fad 00             ??         00h
0fae 00             ??         00h
0faf 00             ??         00h
0fb0 00             ??         00h
0fb1 00             ??         00h
0fb2 00             ??         00h
0fb3 00             ??         00h
0fb4 00             ??         00h
0fb5 00             ??         00h
0fb6 00             ??         00h
0fb7 00             ??         00h
0fb8 00             ??         00h
0fb9 00             ??         00h
0fba 00             ??         00h
0fbb 00             ??         00h
0fbc 00             ??         00h
0fbd 00             ??         00h
0fbe 00             ??         00h
0fbf 00             ??         00h
0fc0 00             ??         00h
0fc1 00             ??         00h
0fc2 00             ??         00h
0fc3 00             ??         00h
0fc4 00             ??         00h
0fc5 00             ??         00h
0fc6 00             ??         00h
0fc7 00             ??         00h
0fc8 00             ??         00h
0fc9 00             ??         00h
0fca 00             ??         00h
0fcb 00             ??         00h
0fcc 00             ??         00h
0fcd 00             ??         00h
0fce 00             ??         00h
0fcf 00             ??         00h
0fd0 00             ??         00h
0fd1 00             ??         00h
0fd2 00             ??         00h
0fd3 00             ??         00h
0fd4 00             ??         00h
0fd5 00             ??         00h
0fd6 00             ??         00h
0fd7 00             ??         00h
0fd8 00             ??         00h
0fd9 00             ??         00h
0fda 00             ??         00h
0fdb 00             ??         00h
0fdc 00             ??         00h
0fdd 00             ??         00h
0fde 00             ??         00h
0fdf 00             ??         00h
0fe0 00             ??         00h
0fe1 00             ??         00h
0fe2 00             ??         00h
0fe3 00             ??         00h
0fe4 00             ??         00h
0fe5 00             ??         00h
0fe6 00             ??         00h
0fe7 00             ??         00h
0fe8 00             ??         00h
0fe9 00             ??         00h
0fea 00             ??         00h
0feb 00             ??         00h
0fec 00             ??         00h
0fed 00             ??         00h
0fee 00             ??         00h
0fef 00             ??         00h
0ff0 00             ??         00h
0ff1 00             ??         00h
0ff2 00             ??         00h
0ff3 00             ??         00h
0ff4 00             ??         00h
0ff5 00             ??         00h
0ff6 00 00          addr       0000                    BOOTSTRAP Vector (Not used in th...
```

```
                0ff8 08 c8          addr       TIMER_INTERRUPT                 Timer Interrupt Vector
                0ffa 00 00          addr       0000                            External Interrupt Vector
                0ffc 09 ba          addr       SWI_INTERRUPT                   SWI Vector
                0ffe 01 10          addr       RESET                           RESET Vector
```