## Switcher

### Ashley J. Robinson

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- 3.1 Peripherals

### 3.1.1 Analogue to Digital Convertors (ADCs)

A single ADC is multiplexed to measure three voltages on the board.

### 3.1.2 Universal Asyncronhouse/Syncronhous Transceiver (UART)

The UART is configure to run at 115200 baud with no control flow with a ring buffer interface. Trasmission from the microcontroller happens through **uartLoadOut** which adds to the **8 byte** buffer and is then unloaded from a timer. The input is not interrupt driven and is handled in the main control loop using a **5 byte** buffer that is enough to contain the longest command.

### 3.1.3 Programmable Counter Array (PCA)

The Pulse Width Modulation (PWM) is controlled from the counter array. The output runs at approximatly 96KHz with 8 bits to control the duty cycle. A high resolution for control would be favourable for this application but the frequency achieved in 16-bit mode is far too low for this application.

#### **3.1.4** Timers

**Timer 0** is used as baud rate generagiion for the UART. **Timer 2** is used to trigger an Interrupt Service Routine (ISR) which runs at 4KHz. The ISR control the UART transmission, sampling of the ADC, running the controller and finally setting the PWM.

# 3.2 Operation

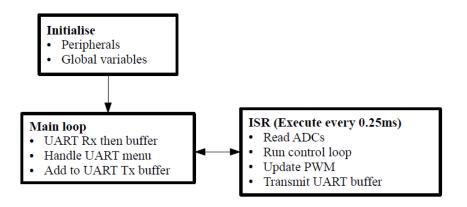


Figure 1: Software overview.

### 3.3 UART Menu

Command	Char	Send	Return	Notes
		numbers	numbers	
Enable	g	0	0	0
Disable	s	0	0	0
Read ADC1	X	0	4	Result in mV
Read ADC2	У	0	4	Result in mV
Read ADC3	Z	0	4	Result in mV
Read output current	j	0	4	Result in mA
Set output voltage	v	4	0	Send value in mV
Set otuput current	c	4	0	Send value in mA
Set controller P	р	4	0	Value is divide by 10
Set controller I	i	4	0	Value is divide by 10
Set input voltage up-	u	4	0	Send value in mV
per limit				
Set input voltage	1	4	0	Send value in mV
lower limit				

Table 1: UART menu

## 3.4 Assembly analysis

The following sections of code are library function inserted by the compilier implict to facilite some more complex operations.

#### 3.4.1 ADC scaling

Listing 1 is a line of code operating on a 32 bit signed integer and invokes listing 5 and 6. The purpose of this operation is to cast the voltage recorded by the ADC to a representation in mV. It is possible for the target voltage to be translated instead but this would still require the same piece of code. The 12 bit oputput but the ADC must be multiplied 5.926 as to

represent the voltage at the top of the potential divider. Fixed but multiplication followed by a shift operation removes the need for a floating point operation but yields the same result.

#### 3.4.2 ADC scaling

#### 3.4.3 Division

Division and modulus operations are contained in 2 invoke the functions contained in 8.

Listing 2: Division

scale /= 10;

num = out / scale;

out %= scale;

#### 3.4.4 Switch

This library function is generated to control large switch statements??

## 4 Testing

The potential dividers constantly place the power supply under a load of  $515\Omega$ . To test both the UART interface and the switch mode functionality a small python script is used to create GUI to plot values in real time. The input and output voltages recorded by the mircocontroller are contained in Figure 2 and the actual values are contained in 3.

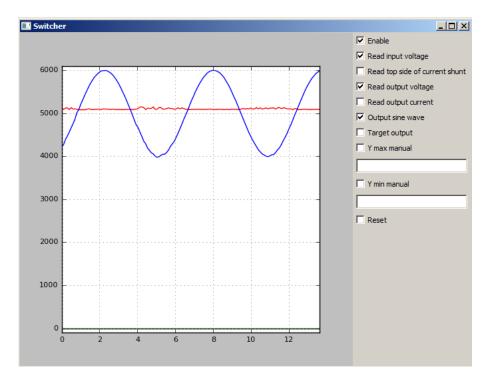


Figure 2: Sine wave output on GUI.

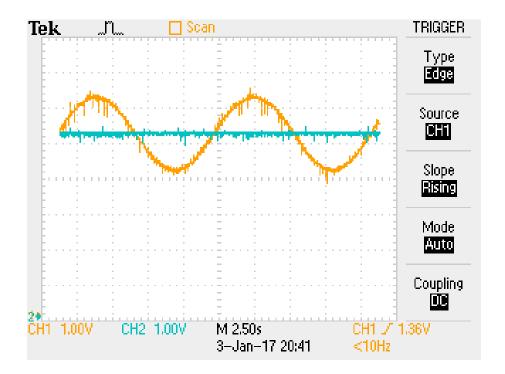


Figure 3: Sine wave output on scope.

### 5 Conclusion

The complete assembly in listing 4 is generated from the code in listing 3. The C code is contained within a single file and generates 950 lines of assembler with an additional 3 lines contained within the jump table and the jump on reset...

- 0x0000 Jumps straight to 0x0800
- 0x001B Jump table entry TIMER1\_ISR(C:0BB6)
- 0x002B Jump table entry TIMER2\_ISR(C:094C)
- 0x0800 First line of code generated from main.c
- 0x0BB6 Final line of code generated from main.c

The Keil c51 compilier limits machine code generation to 2KB (not a problem) however it also limits the use of memory less than 2KB by always jumping to address 2048 and then continuing with the compiled assembler. Excluding the first 2048 is not completely fair because the jump on reset and the jump table would still exsist. The highest vector used in the jump table is at address 43 so assuming this is not optimised by the compilier the total code size comes to **993 bytes**.

#### 5.1 Further work

- Improve output current
- Replaced protection diodes with sutiable parts
- Improve resolution of ADC to enable constant control

# 6 Appendix

## 6.1 Code listings

Listing 3: main.c

```
//-----// Project: Switcher
// File:
// Brief:
                main.c
Single main file containing all code
#include "SI_C8051F850_Register_Enums.h"
#include "SI_C8051F850_Defs.h"
#define SYSCLK
#define BAUDRATE
                                       24500000
                                                                         // SYSCLK frequency in Hz
                                                                         // Baud rate of UART in bps
                                      115200
#define P
#define I
#define UART_SIZE_IN
#define UART_SIZE_OUT
                                      8
                                       0x08
#define ADC1
#define ADC1
#define ADC3
                                       0 \times 0 A
                                                                         // When combined with >> 10 will scale by 5.926 to compensate for potential divide
#define SCALE MUL
                                       6068
#define DEFAULT_OUT_MV
                                       5000
#define DEFAULT_HIGH_MV
#define DEFAULT_LOW_MV
                                       4000
                                                                         // DS5 P1.0 LED
// DS5 P1.0 LED
SBIT(TEST2, SFR_P1, 3);
SBIT(TEST1, SFR_P1, 4);
// Prototypes
U16 readAdc(U8 sel);
void uartLoadOut(U8 tx);
U16 uartNumbers(U16 toSend,bool transmit);
//-
// Global Variables
//------
                     uart_in[UART_SIZE_IN];
uart_out[UART_SIZE_OUT];
volatile U8
volatile U8
                     head:
volatile U8
                     tail;
volatile int
                      integral;
duty;
                     high_mV;
low_mV;
volatile U16
volatile U16
volatile U16
                      target_mV;
enabled;
volatile bool
volatile U16
                      adc1;
volatile U16
volatile U16
                      adc3:
volatile U16
// Main Routine
void main (void){
    // Start of peripheral setup
    U8 TCON_save;
    // Watchdog
    WDTCN = 0xDE;
    WDTCN = 0xAD;
    // Click
                                                                         // First key
// Second key - Watchdog now disabled
      // Clock
           CLKSEL =
                CLKSEL_CLKSL__HFOSC
CLKSEL_CLKDIV__SYSCLK_DIV_1;
                                                                 | // Use 24.5MHz interal clock
// Do not divide
           POMDOUT =
                POMDOUT_BO__PUSH_PULL
POMDOUT_B1__PUSH_PULL
                                                                         // PWM1 output
// PWM2 output
                POMDOUT_B2__OPEN_DRAIN
POMDOUT_B3__OPEN_DRAIN
POMDOUT_B4__PUSH_PULL
POMDOUT_B5__OPEN_DRAIN
                                                                         // UART TX
// UART RX
                 POMDOUT_B6__OPEN_DRAIN
```

```
POMDOUT_B7__OPEN_DRAIN;
// Port 1
        P1MDOUT =
               P1MDOUT_BO__OPEN_DRAIN
P1MDOUT_B1__OPEN_DRAIN
P1MDOUT_B2__OPEN_DRAIN
               P1MDOUT_B3__PUSH_PULL
P1MDOUT_B4__PUSH_PULL
P1MDOUT_B5__OPEN_DRAIN
P1MDOUT_B6__OPEN_DRAIN
                                                                                              // TEST2
// TEST1
                P1MDOUT_B7__OPEN_DRAIN;
        P1MDIN =
P1MDIN_B0__ANALOG
                                                                                              // ADC1
// ADC2
// ADC3
                P1MDIN_B1__ANALOG
P1MDIN_B2__ANALOG
P1MDIN_B3__DIGITAL
               P1MDIN_B3__DIGITAL
P1MDIN_B4__DIGITAL
P1MDIN_B5__DIGITAL
P1MDIN_B6__DIGITAL
P1MDIN_B7__DIGITAL;
// Port crossbar XBRO =
               XBRO_URTOE__ENABLED
XBRO_SPIOE__DISABLED
XBRO_SMBOE__DISABLED
XBRO_CPOE__DISABLED
                                                                                              // Route out UART
                XBRO_CPOAE__DISABLED XBRO_CP1E__DISABLED
                XBRO_CP1AE__DISABLED
XBRO_SYSCKE__DISABLED;
        XBR1 =
                XBR1_PCAOME__CEXO_CEX1
XBR1_ECIE__DISABLED
                                                                                              // Route out PCAO and PCA1
                XBR1_TOE__DISABLED
               XBR1_T1E__DISABLED
XBR1_T2E__DISABLED;
        XBR2 =
               XBR2_WEAKPUD__PULL_UPS_ENABLED
XBR2_XBARE__ENABLED;
                                                                                              // Weak pull ups
// Enable cross bar
        //ADCOMX =
                                                                                              // Mux set in application
       //ADCOMX =

// ADCOMX_ADCOMX_ADCOP10;

ADCOCF =

(1 << ADCOCF_ADSC__SHIFT)

ADCOCF_ADBBE__NORMAL
ADCOCF_ADDM__GAIN_1

ADCOCF_ADTM__TRACK_NORMAL;
                                                                                              // ADC set to 10 bit
// ADC gain set to 1
// Immediate covert
        ADCOCNO &=
                 ~ADCOCNO_ADCM__FMASK;
        ADCOCNO_ADEN__ENABLED
                ADCOCNO_ADCM__ADBUSY;
      &
TCON_save;
// Timer setup
CKCON =
               ON =

CKCON_SCA__SYSCLK_DIV_12

CKCON_TOM__PRESCALE

CKCON_T3MH__EXTERNAL_CLOCK

CKCON_T3ML__EXTERNAL_CLOCK

CKCON_T1M__SYSCLK;
        TMOD =
               TMOD_TOM__MODEO
TMOD_CTO__TIMER
TMOD_GATEO__DISABLED
               TMOD_T1M__MODE2
TMOD_CT1__TIMER
TMOD_GATE1__DISABLED;
        TCON |=
TCON_TR1__RUN ;
// UART
        SCONO I=
               SCONO_REN__RECEIVE_ENABLED;
// VREF
        REFOCN =
               REFOCN_REFSL__VDD_PIN
REFOCN_IREFLVL__1P65
                REFOCN_GNDSL__GND_PIN
REFOCN_TEMPE__TEMP_DISABLED;
// RSTSRC
        RSTSRC =
               SRC =
RSTSRC_CORSEF__NOT_SET
RSTSRC_MCDRSF__SET
RSTSRC_PORSF__SET
RSTSRC_SWRSF__NOT_SET;
// Interrupt
IE =
               IE_EA__ENABLED
IE_EXO__DISABLED
IE_EX1__DISABLED
                IE_ESPIO__DISABLED
IE_ETO__DISABLED
```

```
// Timer 1 enabled
// Timer 2 enabled
                 IE_ET2_ENABLED
IE_ES0_ENABLED;
           IP =
                 IP_PXO__LOW
                  IP_PX1__LOW
                  IP_PSPIO__LOW
IP_PTO__LOW
                 IP_PT1__LOW
IP_PT2__HIGH
                                                                              // Timer 2 highest priority
                 IP_PSO__LOW;
     // PCA
           PCAOCN CR =
                 PCAOCN_CR__STOP;
           PCAOCPMO =
                  PCAOCPMO_CAPN__DISABLED
                 PCAOCPMO_ECCF__ENABLED
PCAOCPMO_MAT__ENABLED
PCAOCPMO_CAPP__DISABLED
PCAOCPMO_CAPP__DISABLED
PCAOCPMO_ECOM__ENABLED
                  PCAOCPMO_PWM__ENABLED PCAOCPMO_TOG__DISABLED;
           PCAOCPM1 =
                  PCAOCPM1_CAPN__DISABLED
                  PCAOCPM1_ECCF__ENABLED
PCAOCPM1_MAT__ENABLED
           PCAOCFMI_TAIL_ENABLED
PCAOCFMI_CAPP__DISABLED
PCAOCFMI_ECOM__ENABLED
PCAOCFMI_FWM__ENABLED
PCAOCFMI_TOG__DISABLED;
PCAOMD =
                 PCAOMD_CIDL__NORMAL
PCAOMD_ECF__OVF_INT_DISABLED
PCAOMD_CPS__SYSCLK;
           PCAOCN I=
     PCAUCN |=
PCAUCN_CR__RUN;
// Timer 2
TMR2CN |= TMR2CN_TR2__RUN;
// End of peripheral setup
                    = false;
= 0;
= DEFAULT_OUT_MV;
= DEFAULT_HIGH_MV;
= DEFAULT_LOW_MV;
      enabled
     integral target_mV
     high_mV
     low_mV
      SCONO_TI
                      = 1;
= 0;
     SCONO_RI
     while (1) {
   if(SCONO_RI){
                 SCONO_RI = 0;

uart_in[4] = uart_in[3];

uart_in[3] = uart_in[2];

uart_in[2] = uart_in[1];

uart_in[1] = uart_in[0];

uart_in[0] = SBUF0;
                                                                                                                   // Small buffer, less code not to use loop
                  uartLoadOut(uart_in[0]);
                  switch(uart_in[0]){
                        case 'a': uartNumbers(target_mV, true);
                                          break;
                        case 'c':
                                          uartNumbers(current, true);
                                          break;
uartNumbers(duty,true);
                       case 'd':
                                          break;
enabled
                                                         = true;
= 0;
                        case 'g':
                                          integral
                                          break;
enabled
                        case 's':
                                                          = false;
                                          break;
                        case 'm':
                                          uartNumbers(high_mV, true);
                                          break;
                                          uartNumbers(low_mV,true);
                        case 'n':
                                          break;
                        case 'x':
                                          uartNumbers(adc1,true);
                                          break;
                        case 'y':
                                          uartNumbers(adc2.true):
                                          break;
                        case 'z':
                                          uartNumbers(adc3,true);
                                          break;
                                          switch(uart_in[4]){
                        default:
                                               case 'h': high_mV
                                                                                    = uartNumbers(high_mV,false);
                                                                  break;
low_mV
                                                case 'l':
                                                                                    = uartNumbers(low_mV, false);
                                                                  break;
                                                                                    = uartNumbers(target_mV,false);
= 0;
                                                case 'v':
                                                                  target_mV
                                                                  integral
                                                                  break;
  }
                                          break;
//-----/
// Routines
```

IE\_ET1\_\_ENABLED

```
//-----
                                                      // Handle buffering out Tx UART
// Buffer outgoing
void uartLoadOut(U8 tx){
    uart_out[head] = tx;
head++;
head %= UART_SIZE_OUT;
                                                       // Wrap around
}
U16 uartNumbers(U16 toSend, bool transmit){
                                                     // Tx/Rx up to 4 length numbers over UART
    U16 out = toSend;
U16 num = 0;
U16 scale = 10000;
    U8 test;
U8 i = 4;
    bool bad = false;
    while(i){
                                                        // On zero done
       scale /= 10;
                                                        // Shift
// Move through UART array
        i--;
test = uart_in[i] - 48;
                                                        // ascii to num
// check is 0 to 9, unsigned
        if(test > 10){
   bad = true;
}
                                                        // shift in to position

// Put if statement at back of loop to save on jumps

// 10 powers

// Number to ascii

// Remainder for next time
        num += test*scale;
        if(transmit){
   num = out / scale;
             uartLoadOut(num + 48);
             out %= scale;
    uartLoadOut('\n');
uartLoadOut('\r');
    if(bad){
   num = DEFAULT_OUT_MV;
                                                       // Not all valid numbers so set output as default
    return num:
}
U16 readAdc(U8 sel){
                                                        // Read the available ADCs
    U8 i;
    ADCOMX = sel;
    for(i=0;i<2;i++){
        ADCOCNO |= ADCOCNO_ADBUSY__SET;
while(ADCOCNO & ADCOCNO_ADBUSY__SET);
                                                       // Wait for sample to complete
    return (((U32)ADCO)*SCALE_MUL) >> 10;
                                                        // Scale to mV
}
//-----
// Interrupt Routines
            _____
INTERRUPT (TIMER1 ISR. TIMER1 IROn){}
                                                        // Needed for UART timing
INTERRUPT (TIMER2_ISR, TIMER2_IRQn){
                                                      // One timer handling UART Tx and PID
    int out;
int error;
    TEST1 = 1;
    adc1 = readAdc(ADC1);
adc2 = readAdc(ADC2);
adc3 = readAdc(ADC3);
    if((adc1 < low_mV) || (adc1 > high_mV)){
    enabled = false;
}
                                                     // Watch input voltage
    error = (int)target_mV - (int)adc3;
                                                       // PID controller
    integral += error;
out = ((error*P) + (integral*I)) >> 10;
                                                     // Divide by 1024
    if((out < 0) || (!enabled)){
    out = 0;
    duty = out;
PCAOCPH0 = PCAOCPH1 = 0xFF - out;
    if(head != tail){
   SBUFO = uart_out[tail];
                                                       // Timer tuned so no need to check
// Transmit UART
// Wrap around
        tail++:
        tail %= UART_SIZE_OUT;
    TMR2H = 255;
TMR2CN_TF2H = 0;
TEST1 = 0;
                                                        // Runs at 4KHz
// Enable interrupt again
// Timing debug
7
//-----
// END
```

Listing 4: Swicther.asm

		Listii	ng 4: Swicther.asm
C:0x0000	020BAA	LJMP	C:0BAA
C:0x0003	00	NOP	
C:0x0004	00	NOP	
C:0x0005	00	NOP	
C:0x0006	00	NOP	
C:0x0007 C:0x0008	00	NOP	
C:0x0008	00 00	NOP NOP	
C:0x0009	00	NOP	
C:0x000B	00	NOP	
C:0x000C	00	NOP	
C:0x000D	00	NOP	
C:0x000E	00	NOP	
C:0x000F	00	NOP	
C:0x0010	00	NOP	
C:0x0011	00	NOP	
C:0x0012	00	NOP	
C:0x0013 C:0x0014	00 00	NOP NOP	
C:0x0014	00	NOP	
C:0x0016	00	NOP	
C:0x0017	00	NOP	
C:0x0018	00	NOP	
C:0x0019	00	NOP	
C:0x001A	00	NOP	
C:0x001B	020BB6	LJMP	TIMER1_ISR(C:OBB6)
C:0x001E	00	NOP	
C:0x001F C:0x0020	00 00	NOP NOP	
C:0x0020	00	NOP	
C:0x0021	00	NOP	
C:0x0023	00	NOP	
C:0x0024	00	NOP	
C:0x0025	00	NOP	
C:0x0026	00	NOP	
C:0x0027	00	NOP	
C:0x0028	00	NOP	
C:0x0029 C:0x002A	00 00	NOP NOP	
C:0x002R	02094C	LJMP	TIMER2_ISR(C:094C)
C:0x002E	00	NOP	11111112_1011(0.0040)
C:0x002F	00	NOP	
C:0x0030	00	NOP	
C:0x0031	00	NOP	
C:0x0032	00	NOP	
C:0x0033	00	NOP	
C:0x0034	00	NOP	
C:0x0035	00	NOP	
C:0x0036	00	NOP	
C:0x0037 C:0x0038	00 00	NOP NOP	
C:0x0039	00	NOP	
C:0x003A	00	NOP	
C:0x003B	00	NOP	
C:0x003C	00	NOP	
C:0x003D	00	NOP	
C:0x003E	00	NOP	
C:0x003F	00	NOP	
C:0x0040	00	NOP	
C:0x0041	00	NOP	
C:0x0042 C:0x0043	00 00	NOP NOP	
C:0x0044	00	NOP	
C:0x0045	00	NOP	
C:0x0046	00	NOP	
C:0x0047	00	NOP	
C:0x0048	00	NOP	
C:0x0049	00	NOP	
C:0x004A C:0x004B	00 00	NOP NOP	
C:0x004B C:0x004C	00	NOP	
C:0x004C	00	NOP	
C:0x004E	00	NOP	
C:0x004F	00	NOP	
C:0x0050	00	NOP	
C:0x0051	00	NOP	
C:0x0052	00	NOP	
C:0x0053 C:0x0054	00	NOP	
C:0x0054 C:0x0055	00 00	NOP NOP	
C:0x0056	00	NOP	
C:0x0050	00	NOP	
C:0x0058	00	NOP	
C:0x0059	00	NOP	
C:0x005A	00	NOP	
C:0x005B	00	NOP	
C:0x005C	00	NOP	
C:0x005D	00	NOP	
C:0x005E C:0x005F	00 00	NOP NOP	
C:0x005F C:0x0060	00	NOP	
C:0x0061	00	NOP	
C:0x0062	00	NOP	
C:0x0063	00	NOP	
C:0x0064	00	NOP	
C:0x0065	00	NOP	
C:0x0066	00	NOP	
C:0x0067	00	NOP	

C:0x0068	00	NOP
C:0x0069	00	NOP
C:0x006A	00	NOP
C:0x006B	00	NOP
C:0x006C	00	NOP
C:0x006D	00	NOP
C:0x006E	00	NOP
C:0x006F	00	NOP
C:0x0070	00	NOP
C:0x0071	00	NOP
C:0x0072	00	NOP
C:0x0073	00	NOP
C:0x0074	00	NOP
C:0x0075	00	NOP
C:0x0076	00	NOP
C:0x0077	00	NOP
C:0x0078	00	NOP
C:0x0079	00	NOP
C:0x007A	00	NOP
C:0x007B	00	NOP
C:0x007C	00	NOP
C:0x007D	00	NOP
C • O ▼ O O 7 F	00	NOP
C:0x007F C:0x0080 C:0x0081	00	NOP
C:0x0080	00	NOP
C:0x0081	00	NOP
C:0x0082	00	NOP
C:0x0083	00	NOP
C:0x0084	00	NOP
C:0x0085	00	NOP
	00	NOP
C:0x0086 C:0x0087	00	NOP
C:0x0088	00	NOP
C:0x0089	00	NOP
		NOP
C:0x008A	00	NOP
C:0x008B	00	
C:0x008C C:0x008D	00	NOP
C:0X008D	00	NOP
C:0x008E	00	NOP
C:0x008F	00	NOP
C:0x0090	00	NOP
C:0x0091	00	NOP
C:0x0092 C:0x0093	00	NOP
	00	NOP
C:0x0094	00	NOP
C:0x0095	00	NOP
C:0x0096	00	NOP
C:0x0097	00	NOP
C:0x0098 C:0x0099	00	NOP
C:0x0099	00	NOP
C:0x009A C:0x009B	00	NOP
C:0x009B	00	NOP
C:0x009C	00	NOP
C.0x009D	00 00	NOP NOP
C:0x009E C:0x009F	00	NOP
C:0x009F	00	NOP
C:0x00A0	00	NOP
C:0x00A1	00	NOP
C:0x00A2	00	NOP
C:0x00A3	00	NOP
C:0x00A5	00	NOP
C:0x00A6	00	NOP
C:0x00A0	00	NOP
C:0x00A7	00	NOP
C:0x00A9	00	NOP
C:OxOOAA	00	NOP
C:0x00AB	00	NOP
C:OXOOAB C:OXOOAC	00	NOP
C:OXOOAC C:OXOOAD	00	NOP
C:OXOOAD C:OXOOAE	00	NOP
C:0x00AE C:0x00AF	00	NOP
C:0x00AF	00	NOP
C:0x00B0	00	NOP
C:0x00B2 C:0x00B3	00	NOP
C:0x00B3 C:0x00B4	00	NOP
	00	NOP NOP
C:0x00B5 C:0x00B6	00 00	NOP
C:0x00B6	00	NOP
C:0x00B7		NOP
C:0x00B6		NOP
	00	MUD
	00 00	NOP NOP
C:0x00BA	00 00 00	NOP
C:0x00BA C:0x00BB	00 00 00	NOP NOP
C:0x00BA C:0x00BB C:0x00BC	00 00 00 00	NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD	00 00 00 00 00	NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE	00 00 00 00 00 00	NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE C:0x00BF	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE C:0x00BF C:0x00C0	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE C:0x00BF C:0x00C0 C:0x00C0	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE C:0x00BF C:0x00C0 C:0x00C1 C:0x00C1	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE C:0x00BF C:0x00C0 C:0x00C1 C:0x00C2 C:0x00C3	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE C:0x00BF C:0x00C0 C:0x00C1 C:0x00C2 C:0x00C3 C:0x00C4	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BD C:0x00BE C:0x00C0 C:0x00C1 C:0x00C1 C:0x00C2 C:0x00C3 C:0x00C4 C:0x00C5	00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BD C:0x00BD C:0x00BD C:0x00BF C:0x00C1 C:0x00C2 C:0x00C3 C:0x00C3 C:0x00C5 C:0x00C5 C:0x00C6	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BC C:0x00BE C:0x00BE C:0x00C1 C:0x00C1 C:0x00C3 C:0x00C3 C:0x00C4 C:0x00C6 C:0x00C6 C:0x00C6	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BC C:0x00BE C:0x00BC C:0x00C1 C:0x00C2 C:0x00C3 C:0x00C4 C:0x00C5 C:0x00C5 C:0x00C5 C:0x00C6	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x00BA C:0x00BB C:0x00BC C:0x00BC C:0x00BE C:0x00BE C:0x00C1 C:0x00C1 C:0x00C3 C:0x00C3 C:0x00C4 C:0x00C6 C:0x00C6 C:0x00C6	00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x00CB	00	NOP
C:0x00CC	00	NOP
C:0x00CD	00	NOP
C:0x00CE	00	NOP
C:0x00CF	00	NOP
C:0x00D0	00	NOP
C:0x00D1	00	NOP
C:0x00D2	00	NOP
C:0x00D3		
	00	NOP
C:0x00D4	00	NOP
C:0x00D5	0.0	NOP
C:0x00D6	00	NOP
C:0x00D7	00	NOP
C:0x00D8	00	NOP
C:0x00D9	00	NOP
C:0x00DA	00	NOP
C:0x00DB	00	
		NOP
C:0x00DC	00	NOP
C:0x00DD	00	NOP
C:0x00DE	00	NOP
C:0x00DF		
	00	NOP
C:0x00E0	00	NOP
C:0x00E1	00	NOP
C:0x00E2	00	NOP
	00	NOP
C:0x00E3		
C:0x00E4	00	NOP
C:0x00E5	00	NOP
C:0x00E6	00	NOP
C:0x00E7	00	NOP
C:0x00E8	00	NOP
C:0x00E9	00	NOP
C:0x00EA	00	NOP
C:0x00EB	00	NOP
C:0x00EC	00	NOP
C:0x00ED	00	NOP
C:0x00EE	00	NOP
C:0x00EF	00	NOP
C:0x00F0	00	NOP
C:0x00F1	00	NOP
C:0x00F2	00	NOP
C:0x00F3	00	NOP
C:0x00F4	00	NOP
C:0x00F5	00	NOP
C:0x00F6	00	NOP
C:0x00F7	00	NOP
C:0x00F8	00	NOP
C:0x00F9	00	NOP
C:0x00FA	00	NOP
C:0x00FB	00	NOP
C:0x00FC	00	NOP
C:0x00FD	00	NOP
C:0x00FE	00	NOP
C:0x00FF	00	NOP
C:0x0100	00	NOP
C:0x0101	00	NOP
C:0x0102	00	NOP
C:0x0103	00	NOP
C:0x0104	00	NOP
C:0x0105	00	NOP
C:0x0106		
	00	NOP
C:0x0107	00	NOP
C:0x0108 C:0x0109	00	NOP
C:0x0109	00	NOP
	00	NOP
C:0x010A		
C:0x010B	00	NOP
C:0x010C	00	NOP
C:0x010D	00	NOP
C:0x010E	00	NOP
C:0x010F	00	NOP
C:0x0110	00	NOP
C:0x0111	00	NOP
C:0x0112	00	NOP
C:0x0113	00	NOP
C:0x0114	00	NOP
C:0x0115	00	NOP
C:0x0116	00	NOP
C:0x0117	00	NOP
C:0x0118	00	NOP
C:0x0119	00	NOP
0.0-0111		NOP
C:0x011A	00	
C:0x011B	00 00	NOP
	00	NOP NOP
C:0x011B C:0x011C	00 00 00	NOP
C:0x011B C:0x011C C:0x011D	00 00 00	NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E	00 00 00 00	NOP NOP NOP
C:0x011B C:0x011C C:0x011D	00 00 00	NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F	00 00 00 00	NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120	00 00 00 00 00 00	NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121 C:0x0121	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121 C:0x0122 C:0x0123	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121 C:0x0122 C:0x0123 C:0x0124	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011F C:0x011F C:0x0120 C:0x0121 C:0x0122 C:0x0123 C:0x0124 C:0x0125	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121 C:0x0122 C:0x0122 C:0x0124 C:0x0125 C:0x0125 C:0x0126	00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011F C:0x011F C:0x0120 C:0x0121 C:0x0122 C:0x0123 C:0x0124 C:0x0125	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011E C:0x0120 C:0x0121 C:0x0122 C:0x0123 C:0x0124 C:0x0126 C:0x0126 C:0x0126 C:0x0126	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011E C:0x0120 C:0x0121 C:0x0122 C:0x0122 C:0x0124 C:0x0125 C:0x0126 C:0x0126 C:0x0127 C:0x0127	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121 C:0x0122 C:0x0122 C:0x0124 C:0x0125 C:0x0126 C:0x0126 C:0x0127 C:0x0126	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011E C:0x0120 C:0x0121 C:0x0122 C:0x0123 C:0x0124 C:0x0125 C:0x0126 C:0x0127 C:0x0128 C:0x0129 C:0x0129 C:0x0129	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011F C:0x0120 C:0x0121 C:0x0122 C:0x0122 C:0x0124 C:0x0125 C:0x0126 C:0x0126 C:0x0127 C:0x0126	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011E C:0x0120 C:0x0121 C:0x0122 C:0x0123 C:0x0124 C:0x0125 C:0x0126 C:0x0126 C:0x0127 C:0x0128 C:0x0128 C:0x0128 C:0x0128 C:0x0128	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011F C:0x011F C:0x0121 C:0x0122 C:0x0122 C:0x0122 C:0x0125 C:0x0126 C:0x0126 C:0x0127 C:0x0128 C:0x0129 C:0x0129 C:0x0129 C:0x0128 C:0x0129	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x011B C:0x011C C:0x011D C:0x011E C:0x011E C:0x0120 C:0x0121 C:0x0122 C:0x0123 C:0x0124 C:0x0125 C:0x0126 C:0x0126 C:0x0127 C:0x0128 C:0x0128 C:0x0128 C:0x0128 C:0x0128	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x012E	00	NOP
C:0x012F	00	NOP
C:0x0130	00	NOP
C:0x0131	00	NOP
C:0x0132	00	NOP
C:0x0133	00	NOP
C:0x0134	00	NOP
C:0x0135	00	NOP
		NOP
C:0x0136	00	
C:0x0137	00	NOP
C:0x0138	00	NOP
C:0x0139	00	NOP
C:0x013A	00	NOP
C:0x013B	00	NOP
C:0x013C	00	NOP
C:0x013D	00	NOP
C:0x013E	00	NOP
C:0x013F	00	NOP
C:0x0140	00	NOP
C:0x0141	00	NOP
C:0x0142	00	NOP
C:0x0143	00	NOP
C:0x0144	00	NOP
C:0x0145	00	NOP
C:0x0146	00	NOP
C:0x0147		
	00	NOP
C:0x0148	00	NOP
C:0x0149	00	NOP
C:0x014A	00	NOP
C:0x014B	00	NOP
C:0x014C	00	NOP
C:0x014D	00	NOP
C:0x014E	00	NOP
C:0x014F	00	NOP
C:0x0150	00	NOP
C:0x0151	00	NOP
C:0x0152	00	NOP
C:0x0153	00	NOP
		NOP
C:0x0154	00	
C:0x0155	00	NOP
C:0x0156	00	NOP
C:0x0157	00	NOP
C:0x0158	00	NOP
C:0x0159	00	NOP
C:0x015A	00	NOP
C:0x015B	00	NOP
C:0x015C	00	NOP
C:0x015D	00	NOP
C:0x015E	00	NOP
C:0x015F	00	NOP
C:0x0160	00	NOP
C:0x0161	00	NOP
C:0x0162	00	NOP
C:0x0163	00	NOP
C:0x0164	00	NOP
C:0x0165	00	NOP
C:0x0166	00	NOP
C:0x0167	00	NOP
C:0x0168	00	NOP
C:0x0169	00	NOP
C:0x016A	00	NOP
C:0x016B	00	NOP
C:0x016C	00	NOP
C:0x016D	00	NOP
C:0x016E	00	NOP
C:0x016F	00	NOP
C:0x0170	00	NOP
C:0x0171	00	NOP
C:0x0172	00	NOP
C:0x0173	00	
		NOP
C:0x0174	00	NOP
C:0x0175	00	NOP
C:0x0176	00	NOP
C:0x0177	00	NOP
C:0x0178	00	NOP
C:0x0179	00	NOP
C:0x017A	00	NOP
C:0x017B	00	NOP
C:0x017C	00	NOP
C:0x017D	00	NOP
C:0x017E	00	NOP
C:0x017E	00	NOP
C:0x0180	00	NOP
C:0x0181	00	NOP
C:0x0182	00	NOP
C:0x0183	00	NOP
C:0x0184	00	NOP
C:0x0185	00	NOP
C:0x0186	00	NOP
C:0x0187	00	NOP
C:0x0188	00	NOP
		NOP
C:0x0189	00	
C:0x0189 C:0x018A	00	NOP
C:0x018A	00	
C:0x018A C:0x018B	00 00	NOP
C:0x018A C:0x018B C:0x018C	00 00 00	NOP NOP
C:0x018A C:0x018B C:0x018C C:0x018D	00 00 00	NOP NOP NOP
C:0x018A C:0x018B C:0x018C	00 00 00	NOP NOP
C:0x018A C:0x018B C:0x018C C:0x018D C:0x018E	00 00 00 00	NOP NOP NOP
C:0x018A C:0x018B C:0x018C C:0x018D C:0x018E C:0x018F	00 00 00 00 00	NOP NOP NOP NOP
C:0x018A C:0x018B C:0x018C C:0x018D C:0x018E	00 00 00 00	NOP NOP NOP

C:0x0191 C:0x0192 C:0x0193 C:0x0194	00 00 00	NOP NOP
C:0x0193		NOP
	00	
		NOP
	00	NOP
C:0x0195	00	NOP
C:0x0196	00	NOP
C:0x0197	00	NOP
C:0x0198	00	NOP
C:0x0199	00	NOP
C:0x019A	00	NOP
C:0x019B	00	NOP
C:0x019C	00	NOP
C:0x019D	00	NOP
C:0x019E	00	NOP
C:0x019F	00	NOP
C:0x01A0	00	NOP
C:0x01A1	00	NOP
C:0x01A2	00	NOP
C:0x01A3	00	NOP
C:0x01A4	00	NOP
C:0x01A5		NOP
C:0x01A6	00	NOP
C:0x01A7	00	NOP
C:0x01A8	00	NOP
C.O.O.O.1.0		
C:0x01A9	00	NOP
C:0x01AA	00	NOP
C:0x01AB C:0x01AC	00	NOP
C:0x01AC	00	NOP
C:0x01AD	00	NOP
C:0x01AE	00	NOP
C:0x01AF	00	NOP
C:0x01B0	00	NOP
C:0x01B1	00	
C:0x01B1 C:0x01B2	00	NOP
	00	NOP
C:0x01B3	00	NOP
C:0x01B4	00	NOP
C:0x01B5	00	NOP
C:0x01B6	00	NOP
C:0x01B7	00	NOP
C:0x01B8	00	NOP
C:0x01B9	00	NOP
C:0x01BA	00	NOP
C:0x01BB	00	NOP
C:0x01BC	00	NOP
C:0x01BD	00	NOP
C:0x01BE C:0x01BF C:0x01C0	00	NOP
C:0x01BF	00	NOP
C:0x01C0	00	NOP
	00	NOP
C:0x01C1		
C:0x01C2	00	NOP
C:0x01C2 C:0x01C3	00	NOP
C:0x01C4	00	NOP
C:0x01C5	00	NOP
C:0x01C6	00	NOP
C:0x01C7	00	NOP
C:0x01C8	00	NOP
C:0x01C8 C:0x01C9	00	NOP
C:0x01CA C:0x01CB	00	
C • O • O 1 C B		NOP
O.OROIOD	00	NOP
C:0x01CC	00	NOP
C:0x01CC	00 00	NOP NOP
C:0x01CC	00 00	NOP NOP NOP
C:0x01CC	00 00	NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF	00 00	NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF	00 00	NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0	00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D1	00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D1 C:0x01D2	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D1 C:0x01D2 C:0x01D3	00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D1 C:0x01D2	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01DC C:0x01D0 C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01DF C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6	00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6	00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01DF C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6	00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D7	00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D0 C:0x01D1 C:0x01D3 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01D0 C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D7	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01DC C:0x01D1 C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D8 C:0x01D9	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01D0 C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D7	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D1 C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D8 C:0x01D9 C:0x01D8 C:0x01D9 C:0x01D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D1 C:0x01D2 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D7 C:0x01D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CE C:0x01CF C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x01CC C:0x01CD C:0x01CE C:0x01DC C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D6 C:0x01D7 C:0x01D6 C:0x01D7 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D7 C:0x01D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x01CC C:0x01CD C:0x01CF C:0x01DC C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D7 C:0x01D8 C:0x01D9 C:0x01D8 C:0x01D9 C:0x01D8 C:0x01D9 C:0x01D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x01CC C:0x01CD C:0x01CD C:0x01DC C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01E1 C:0x01E2 C:0x01E3 C:0x01E4 C:0x01E5 C:0x01E6 C:0x01E7 C:0x01E8 C:0x01E8 C:0x01E8 C:0x01E8 C:0x01E8 C:0x01E8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x01CC C:0x01CD C:0x01CD C:0x01DC C:0x01DC C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8 C:0x01D7 C:0x01D8 C:0x01D9 C:0x01D8 C:0x01D9 C:0x01D8 C:0x01D9 C:0x01D8 C:0x01D9 C:0x01D8 C:0x01E9 C:0x01E9 C:0x01E8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x01CC C:0x01CC C:0x01CC C:0x01CE C:0x01DC C:0x01D1 C:0x01D2 C:0x01D3 C:0x01D4 C:0x01D5 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D6 C:0x01D7 C:0x01D8 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x01F4 C:0x01F5 C:0x01F6	00	NOP
C - O - O 1 E C	00	NOP
	00	NOP
C:0x01F7	00	NOP
C:0x01F8	00	NOP
C:0x01F9	00	NOP
C:0x01FA	00	NOP
C:0x01FB	00	NOP
C:0x01FC	00	
		NOP
C:0x01FD	00	NOP
C:0x01FE	00	NOP
C:0x01FF	00	NOP
C:0x0200	00	NOP
C:0x0201	00	NOP
C:0x0202	00	NOP
C:0x0203	00	NOP
C:0x0204	00	NOP
C:0x0205	00	NOP
C:0x0206	00	NOP
C:0x0207	0.0	NOP
C:0x0208	00	NOP
C:0x0209	00	NOP
C:0x020A	00	NOP
C:0x020B	00	NOP
C:0x020C	00	NOP
C:0x020D	00	NOP
C.OAO20D		
C:0x020E C:0x020F C:0x0210	00	NOP
C:0x020F	00	NOP
C:0x0210	00	NOP
C:0x0211	00	NOP
C:0x0212	00	NOP
C:0x0213	00	NOP
C:0x0214	00	NOP
C:0x0215	00	NOP
C:0x0216		
	00	NOP
C:0x0217	00	NOP
C:0x0218	00	NOP
C:0x0219	00	NOP
C:0x021A	00	NOP
C:0x021B		NOP
C:0x021C	00	NOP
C:0x021D	00	NOP
C:0x021E	00	NOP
	00	NOP
C:0x021F		
C:0x0220	00	NOP
C:0x0221	00	NOP
C:0x0222	00	NOP
C:0x0223	00	NOP
C:0x0224	00	NOP
C:0x0225	00	NOP
C:0x0226	00	NOP
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C:0x0228	00	NOP
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C:0x022C	00	NOP
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C:0x022E	00	NOP
C:0x022F	00	NOP
C:0x0230	00	NOP
		NOP
C:0x0231	00	
C:0x0232	00	NOP
C:0x0233	00	NOP
C:0x0234	00	NOP
C:0x0235	00	NOP
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C:0x0237	00	NOP
C:0x0237 C:0x0238	00 00	NOP NOP
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C:0x0237 C:0x0238 C:0x0239 C:0x023A C:0x023B C:0x023D C:0x023D C:0x023D C:0x023F C:0x024D C:0x0241 C:0x0242 C:0x0244 C:0x0244 C:0x0244 C:0x0244 C:0x0244 C:0x0246 C:0x0246	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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	00	NOP
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C:0x025B	00	NOP
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C:0x025E	00	NOP
C:0x025F		
	00	NOP
C:0x0260	00	NOP
C:0x0261	00	NOP
C:0x0262	00	NOP
C:0x0263	00	NOP
C:0x0264	00	NOP
C:0x0265	00	NOP
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C:0x02C9	00	NOP
C:0x02CA	0.0	NOP
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C:0x02DA	00	NOP
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C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F8 C:0x02F8 C:0x02F9 C:0x02F8 C:0x02F9 C:0x02F0 C:0x0300 C:0x0300	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02EE C:0x02EF C:0x02FE C:0x02F1 C:0x02F3 C:0x02F3 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F8 C:0x02F9 C:0x02F7 C:0x02F8 C:0x02F9 C:0x02F8 C:0x02F9 C:0x02F0 C:0x02F0 C:0x02F0 C:0x02F0 C:0x02F0 C:0x0300 C:0x0300 C:0x0300 C:0x0300 C:0x0306 C:0x0308 C:0x0309 C:0x0308	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F7 C:0x02F6 C:0x02F7 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F0 C:0x02F0 C:0x02F0 C:0x0301 C:0x0301 C:0x0303 C:0x0306 C:0x0308	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F0 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F0 C:0x02F0 C:0x02F0 C:0x0301 C:0x0301 C:0x0303 C:0x0306 C:0x0308	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x0300	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F3 C:0x02F6 C:0x0306	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x03F6 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F3 C:0x02F6 C:0x0306	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EF C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F6 C:0x02F7 C:0x02F8 C:0x02F7 C:0x030A C:0x030A C:0x030A C:0x030B C:0x031B C:0x031B	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02EE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F6 C:0x0306 C:0x0311 C:0x0311	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02FE C:0x02FE C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x03F6 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02EE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F6 C:0x0306 C:0x0311 C:0x0311	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02FE C:0x02FE C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x03F6 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02EE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F3 C:0x02F4 C:0x02F3 C:0x02F6 C:0x0306 C:0x0316	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02EE C:0x02FE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F8 C:0x02F7 C:0x0300 C:0x0301 C:0x0311	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02EE C:0x02FE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x02EC C:0x02ED C:0x02ED C:0x02EE C:0x02EE C:0x02F1 C:0x02F2 C:0x02F3 C:0x02F4 C:0x02F5 C:0x02F6 C:0x02F6 C:0x02F6 C:0x02F7 C:0x02F8 C:0x02F7 C:0x0300 C:0x0301 C:0x0311	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x031D C:0x031E		
	00	NOP
	00	NOP
C:0x031F	00	NOP
C:0x0320	00	NOP
C:0x0321	00	NOP
C:0x0322	00	NOP
C:0x0323	00	NOP
C:0x0324	00	NOP
C:0x0325	00	NOP
C:0x0326	00	NOP
C:0x0327	00	NOP
C:0x0328	00	NOP
C:0x0329	00	NOP
C:0x032A	00	NOP
C:0x032B	00	NOP
C:0x032C	00	NOP
C:0x032D	00	NOP
C:0x032E	00	NOP
C:0x032F	00	NOP
C:0x0330	00	NOP
C:0x0331	00	NOP
C:0x0332	00 00	NOP NOP
C:0x0333 C:0x0334	00	NOP
C:0x0334	00	NOP
C:0x0336	00	NOP
C:0x0337	00	NOP
C:0x0338	00	NOP
C:0x0339	00	NOP
C:0x033A	00	NOP
C:0x033B	00	NOP
C:0x033C	00	NOP
C:0x033D	00	NOP
C:0x033E	00	NOP
C:0x033F	00	NOP
C:0x0340	00	NOP
C:0x0341	00	NOP
C:0x0342	00	NOP
C:0x0343	00	NOP
C:0x0344	00	NOP
C:0x0345	00	NOP
C:0x0346	00	NOP
C:0x0347	00	NOP
C:0x0348	00	NOP
C:0x0349 C:0x034A	00 00	NOP NOP
C:0x034R	00	NOP
C:0x034B	00	NOP
C:0x034D	00	NOP
C:0x034E	00	NOP
C:0x034F	00	NOP
C:0x0350	00	NOP
C:0x0351	00	NOP
	00	NOP
C:0x0352 C:0x0353	00	NOP NOP
C:0x0352		
C:0x0352 C:0x0353	00	NOP
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C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0356 C:0x0357 C:0x0358	00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0357 C:0x0357 C:0x0358 C:0x0359	00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0356 C:0x0357 C:0x0358 C:0x0359 C:0x035A	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
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C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0356 C:0x0357 C:0x0358 C:0x0359 C:0x035A C:0x035B C:0x035C	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0356 C:0x0356 C:0x0357 C:0x0358 C:0x0359 C:0x035A C:0x035B	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
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C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x0358 C:0x035B C:0x035B C:0x035B C:0x035B C:0x035C C:0x035B C:0x036C C:0x0363 C:0x0363 C:0x0363 C:0x0363 C:0x0364 C:0x0365 C:0x0366	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0356 C:0x0356 C:0x0356 C:0x0361 C:0x0361 C:0x0363 C:0x0363 C:0x0363 C:0x0364 C:0x0365 C:0x0366	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0356 C:0x0357 C:0x0358 C:0x0361 C:0x0361 C:0x0363 C:0x0363 C:0x0364 C:0x0366 C:0x0367 C:0x0366 C:0x0366 C:0x0367 C:0x0366 C:0x0367	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x036C C:0x0370 C:0x0371 C:0x0371	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x035B C:0x0361 C:0x0361 C:0x0361 C:0x0361 C:0x0363 C:0x0364 C:0x0366 C:0x0367 C:0x0368 C:0x0369 C:0x0369 C:0x0360 C:0x0370 C:0x0371 C:0x0371 C:0x0374 C:0x0377 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0355 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0356 C:0x0356 C:0x0356 C:0x0361 C:0x0361 C:0x0362 C:0x0363 C:0x0366 C:0x0367 C:0x0366 C:0x0367 C:0x0367 C:0x0367 C:0x0367 C:0x0367 C:0x0373 C:0x0373 C:0x0373 C:0x0374 C:0x0377 C:0x0377 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0355 C:0x0357 C:0x0358 C:0x0361 C:0x0361 C:0x0362 C:0x0363 C:0x0364 C:0x0365 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0367 C:0x0368 C:0x0369 C:0x0368 C:0x0369 C:0x0368 C:0x0369 C:0x0368 C:0x0366 C:0x0370 C:0x0371 C:0x0377 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0356 C:0x0361 C:0x0361 C:0x0361 C:0x0362 C:0x0363 C:0x0364 C:0x0365 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0367 C:0x0368 C:0x0369 C:0x0368 C:0x0369 C:0x0368 C:0x0369 C:0x0368 C:0x0368 C:0x0368 C:0x0368 C:0x0368 C:0x0368 C:0x0368 C:0x0368 C:0x0368 C:0x0370 C:0x0371 C:0x0371 C:0x0371 C:0x0377 C:0x0377 C:0x0377 C:0x0377 C:0x0377 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0355 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0356 C:0x0356 C:0x0356 C:0x0361 C:0x0361 C:0x0362 C:0x0363 C:0x0363 C:0x0363 C:0x0363 C:0x0363 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0367 C:0x0367 C:0x0367 C:0x0367 C:0x0371 C:0x0373 C:0x0373 C:0x0374 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0361 C:0x0361 C:0x0362 C:0x0363 C:0x0364 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0367 C:0x0368 C:0x0367 C:0x0368 C:0x0366 C:0x0376 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0358 C:0x0356 C:0x0356 C:0x0361 C:0x0361 C:0x0361 C:0x0364 C:0x0364 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0367 C:0x0368 C:0x0369 C:0x0370 C:0x0370 C:0x0370 C:0x0371 C:0x0370 C:0x0373 C:0x0374 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0352 C:0x0353 C:0x0354 C:0x0355 C:0x0355 C:0x0355 C:0x0356 C:0x0358 C:0x0361 C:0x0361 C:0x0362 C:0x0363 C:0x0364 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0366 C:0x0367 C:0x0368 C:0x0367 C:0x0368 C:0x0366 C:0x0376 C:0x0377	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x0380	00	NOP
C:0x0381	00	NOP
C:0x0382	00	NOP
C:0x0383	00	NOP
C:0x0384	00	NOP
C:0x0385	00	NOP
C:0x0386	00	NOP
C:0x0387	00	NOP
C:0x0388		
	00	NOP
C:0x0389	00	NOP
C:0x038A	00	NOP
C:0x038B	00	NOP
C:0x038C	00	NOP
C:0x038D	00	NOP
C:0x038E	00	NOP
C:0x038F	00	NOP
	00	
C:0x0390		NOP
C:0x0391	00	NOP
C:0x0392	00	NOP
C:0x0393	00	NOP
C:0x0394	00	NOP
C:0x0395	00	NOP
C:0x0396	00	NOP
C:0x0397	00	NOP
	00	NOP
C:0x0398		
C:0x0399	00	NOP
C:0x039A	00	NOP
C:0x039B	00	NOP
C:0x039C	00	NOP
C:0x039D	00	NOP
C:0x039E	00	NOP
C:0x039F C:0x03A0	00	NOP
0.010001	00	NOP
C:0x03A1	00	NOP
C:0x03A2	00	NOP
C:0x03A3	00	NOP
C:0x03A4	00	NOP
C:0x03A5	00	NOP
C:0x03A6	00	NOP
C:0x03A7	00	NOP
C:0x03A8	00	NOP
C:0x03A9	00	NOP
C:0x03AA	00	NOP
C:0x03AB	00	NOP
C:0x03AC	00	NOP
C:0x03AD	00	NOP
C:0x03AE	00	NOP
C:0x03AF	00	NOP
C:0x03B0	00	NOP
C:0x03B1	00	NOP
C:0x03B2	00	NOP
C:0x03B3	00	NOP
C:0x03B4	00	NOP
C:0x03B5	00	NOP
C:0x03B6	00	NOP
C:0x03B7	00	NOP
C:0x03B8	00	NOP
C:0x03B9	00	NOP
C:0x03BA	00	NOP
C:0x03BB		
	00	NOP
C:0x03BC	00	NOP
C:0x03BD	00	NOP
C:0x03BE	00	NOP
	00	NOP
C:0x03BF		
C:0x03C0	00	NOP
C:0x03C1	00	NOP
C:0x03C2	00	NOP
C:0x03C3	00	NOP
C:0x03C4	00	NOP
C:0x03C5	00	NOP
C:0x03C6	00	NOP
C:0x03C7	00	NOP
		NOP
C:0x03C8	00	
C:0x03C9	00	NOP
C:0x03CA	00	NOP
C:0x03CB	00	NOP
C:0x03CC	0.0	NOP
		NOP
C:0x03CD	00	
C:0x03CD	00	MUD
C:0x03CD C:0x03CE	00	NOP
C:0x03CD C:0x03CE C:0x03CF	00 00 00	NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0	00 00 00	NOP NOP
C:0x03CD C:0x03CE C:0x03CF	00 00 00	NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1	00 00 00 00	NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2	00 00 00 00 00	NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3	00 00 00 00 00 00	NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2	00 00 00 00 00	NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4	00 00 00 00 00 00	NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D1 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5 C:0x03D6	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5 C:0x03D6 C:0x03D7	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D1 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5 C:0x03D6	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D4 C:0x03D4 C:0x03D5 C:0x03D6 C:0x03D6	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5 C:0x03D6 C:0x03D6 C:0x03D6	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CD C:0x03GF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5 C:0x03D6 C:0x03D7 C:0x03D6 C:0x03D7	00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03CF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CD C:0x03GF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5 C:0x03D6 C:0x03D7 C:0x03D6 C:0x03D7	00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x03CD C:0x03CE C:0x03GF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D5 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D7 C:0x03D8 C:0x03D8 C:0x03D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CE C:0x03GF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D4 C:0x03D4 C:0x03D6 C:0x03D7 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CD C:0x03GC C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D6 C:0x03D6 C:0x03D7 C:0x03D8 C:0x03D8 C:0x03D9 C:0x03D8 C:0x03DB C:0x03DB C:0x03DB C:0x03DB	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CE C:0x03GF C:0x03DD C:0x03DD C:0x03D3 C:0x03D3 C:0x03D5 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6 C:0x03D6	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CD C:0x03GC C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D6 C:0x03D6 C:0x03D7 C:0x03D8 C:0x03D8 C:0x03D9 C:0x03D8 C:0x03DB C:0x03DB C:0x03DB C:0x03DB	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CD C:0x03GF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D4 C:0x03D4 C:0x03D6 C:0x03D7 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CD C:0x03GP C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D3 C:0x03D4 C:0x03D5 C:0x03D6 C:0x03D7 C:0x03D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x03CD C:0x03CD C:0x03GF C:0x03D0 C:0x03D1 C:0x03D2 C:0x03D4 C:0x03D4 C:0x03D6 C:0x03D7 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8 C:0x03D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x03E3	00	NOP
C:0x03E4	00	NOP
C:0x03E5	00	NOP
C:0x03E6	00	NOP
C:0x03E7		NOP
	00	
C:0x03E8	00	NOP
C:0x03E9	00	NOP
C:0x03EA	00	NOP
C:0x03EB	00	NOP
C:0x03EC	00	NOP
C:0x03ED	00	NOP
C:0x03EE	00	NOP
C:0x03EF	00	NOP
C:0x03F0	00	NOP
C:0x03F1	00	NOP
	00	NOP
C:0x03F2		
C:0x03F3	00	NOP
C:0x03F4	00	NOP
C:0x03F5	00	NOP
C:0x03F6	00	NOP
C:0x03F7	00	NOP
C:0x03F8	00	NOP
C:0x03F9	00	NOP
C:0x03FA	00	NOP
C:0x03FB	00	NOP
C:0x03FC	00	NOP
C:0x03FD	00	NOP
C:0x03FE	00	NOP
C:0x03FF	00	NOP
C:0x0400	00	NOP
C:0x0401	00	NOP
C:0x0402	00	NOP
C:0x0403		
	00	NOP
C:0x0404	00	NOP
C:0x0405	00	NOP
C:0x0406	00	NOP
C:0x0407	00	NOP
C:0x0408	00	NOP
		NOP
C:0x0409	00	
C:0x040A	00	NOP
C:0x040B	00	NOP
C:0x040C	00	NOP
C:0x040D	00	NOP
C.0#040E	00	NOP
C:0x040E C:0x040F		
C:0x040F	00	NOP
C:0x0410	00	NOP
C:0x0411	00	NOP
C:0x0412	00	NOP
C:0x0413	00	NOP
C:0x0414	00	NOP
C:0x0415	00	NOP
C:0x0416	00	NOP
C:0x0417	00	NOP
C:0x0418	00	NOP
C:0x0418 C:0x0419	00	NOP
0 0 0 1 1 1		NOP
C:0x041A C:0x041B	00	
	00	NOP
C:0x041C	00	NOP
C:0x041D	00	NOP
C:0x041E C:0x041F C:0x0420	00	NOP
C:0x041F	00	NOP
C.0#0420	00	NOP
0.010420		
C:0x0421	00	NOP
C:0x0422	00	NOP
C:0x0423	00	NOP
C:0x0424	00	NOP
C:0x0425	00	NOP
C:0x0426	00	NOP
C:0x0427	00	NOP
C:0x0428	00	NOP
C:0x0429	00	NOP
C:0x042A	00	NOP
C:0x042B	00	NOP
C:0x042C	00	NOP
C:0x042D	00	NOP
C:0x042E	00	NOP
C:0x042F	00	NOP
C:0x0430	00	NOP
C:0x0431		NOP
C:0x0432	00	
		NOP
C:0x0433	00	NOP NOP
C:0x0433	00 00 00	NOP
C:0x0433 C:0x0434	00 00 00	NOP NOP
C:0x0433 C:0x0434 C:0x0435	00 00 00 00	NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436	00 00 00 00 00	NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435	00 00 00 00	NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436	00 00 00 00 00	NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x043A	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x043A C:0x043B	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x0434 C:0x0434	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x043A C:0x043B C:0x043B C:0x043D	00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x0434 C:0x0434	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0436 C:0x0438 C:0x0438 C:0x0438 C:0x0438 C:0x0438 C:0x0438 C:0x0438	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x043B C:0x043C C:0x043C C:0x043C C:0x043F	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x0438 C:0x0438 C:0x043B C:0x043B C:0x043C C:0x043C	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0436 C:0x0438 C:0x0438 C:0x0438 C:0x0438 C:0x0438 C:0x0438 C:0x0436 C:0x0436 C:0x0436 C:0x0446 C:0x0446 C:0x0446	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x0438 C:0x043B C:0x043C C:0x043C C:0x043C C:0x0441 C:0x0444	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x0438 C:0x043B C:0x043C C:0x043C C:0x043C C:0x044C C:0x044C C:0x0444 C:0x0444	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0438 C:0x0439 C:0x0438 C:0x043B C:0x043B C:0x043C C:0x044D C:0x044C C:0x0444 C:0x0444	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0433 C:0x0434 C:0x0435 C:0x0436 C:0x0437 C:0x0438 C:0x0439 C:0x0438 C:0x043B C:0x043C C:0x043C C:0x043C C:0x044C C:0x044C C:0x0441 C:0x0444	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x0446	00	NOP
C:0x0447	00	NOP
C:0x0448	00	NOP
C:0x0449	00	NOP
C:0x044A	00	NOP
C:0x044B	00	NOP
C:0x044C	00	NOP
C:0x044D	00	NOP
C:0x044E	00	NOP
C:0x044F	00	NOP
C:0x0450	00	NOP
C:0x0451	00	NOP
C:0x0451	00	NOP
C:0x0453	00	NOP
C:0x0454	00	NOP
C:0x0455	00	NOP
C:0x0456	00	NOP
C:0x0457	00	NOP
C:0x0458	00	NOP
C:0x0459	00	NOP
C:0x045A	00	NOP
C:0x045B	00	NOP
C:0x045C	00	NOP
C:0x045D	00	NOP
C:0x045E	00	NOP
C:0x045F	00	NOP
C:0x0460	00	NOP
C:0x0461	00	NOP
C:0x0462	00	NOP
C:0x0463	00	NOP
C:0x0464	00	NOP
C:0x0465	00	NOP
C:0x0466	00	NOP
C:0x0467	00	NOP
C:0x0468	00	NOP
C:0x0469	00	NOP
C:0x046A	00	NOP
C:0x046B	00	NOP
C:0x046C	00	NOP
C:0x046D	00	NOP
C:0x046E	00	NOP
C:0x046F	00	NOP
C:0x0470	00	NOP
C:0x0471	00	NOP
C:0x0472	00	NOP
C:0x0473	00	NOP
C:0x0474	00	NOP
C:0x0475	00	NOP
C:0x0476	00	NOP
C:0x0477	00	NOP
C:0x0478	00	NOP
C:0x0479	00	NOP
C:0x047A	00	NOP
C:0x047B	00	NOP
C:0x047C	00	NOP
C:0x047D	00	NOP
C:0x047E	00	NOP
C:0x047F	00	NOP
C:0x0480	00 00	NOP NOP
C:0x0481 C:0x0482	00	NOP
C:0x0482	00	NOP
C:0x0484	00	NOP
C:0x0485	00	NOP
C:0x0486	00	NOP
C:0x0487	00	NOP
C:0x0487	00	NOP
C:0x0489	00	NOP
C:0x048A	00	NOP
C:0x048B	00	NOP
C:0x048C	00	NOP
C:0x048D	00	NOP
C:0x048E	00	NOP
C:0x048F	00	NOP
C:0x0490	00	NOP
C:0x0491	00	NOP
C:0x0492	00	NOP
C:0x0493	00	NOP
C:0x0494	00	NOP
C:0x0495	00	NOP
C:0x0496	00	NOP
C:0x0497		NOP
C:0x0498	00	MOD
C:0x0499	00	NOP
C:0x049A	00 00	NOP
	00 00 00	NOP NOP
C:0x049B	00 00 00 00	NOP NOP NOP
C:0x049C	00 00 00 00	NOP NOP NOP
C:0x049C C:0x049D	00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x049C C:0x049D C:0x049E	00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x049C C:0x049D C:0x049E C:0x049F	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0 C:0x04A1	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0 C:0x04A1 C:0x04A2	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0 C:0x04A1 C:0x04A2 C:0x04A3	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0 C:0x04A1 C:0x04A2 C:0x04A3 C:0x04A4	00 00 00 00 00 00 00 00 00 00	NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0 C:0x04A1 C:0x04A2 C:0x04A3 C:0x04A4	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0 C:0x04A1 C:0x04A2 C:0x04A3 C:0x04A4 C:0x04A4	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x049C C:0x049D C:0x049E C:0x049F C:0x04A0 C:0x04A1 C:0x04A2 C:0x04A3 C:0x04A4	00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x04A9	00	NOP
C:0x04AA	00	NOP
C:0x04AB	00	NOP
C:0x04AC	00	NOP
C:0x04AD	00	NOP
C:0x04AE	00	NOP
C:0x04AF	00	NOP
C:0x04B0	00	NOP
C:0x04B1	00	NOP
C:0x04B2	00	NOP
C:0x04B3	00	NOP
C:0x04B4	00 00	NOP NOP
C:0x04B5 C:0x04B6	00	NOP
C:0x04B0	00	NOP
C:0x04B7	00	NOP
C:0x04B9	00	NOP
C:0x04BA	00	NOP
C:0x04BB	00	NOP
C:0x04BC	00	NOP
C:0x04BD	00	NOP
C:0x04BE	00	NOP
C:0x04BF	00	NOP
C:0x04C0	00	NOP
C:0x04C1	00	NOP
C:0x04C2	00	NOP
C:0x04C3	00	NOP
C:0x04C4	00	NOP
C:0x04C5 C:0x04C6	00	NOP
C:0x04C6 C:0x04C7	00 00	NOP NOP
C:0x04C7	00	NOP
C:0x04C9	00	NOP
C:0x04CA	00	NOP
C:0x04CB	00	NOP
C:0x04CC	00	NOP
C:0x04CD	00	NOP
C:0x04CE	00	NOP
C:0x04CF	00	NOP
C:0x04D0	00	NOP
C:0x04D1	00	NOP
C:0x04D2	00	NOP
C:0x04D3	00	NOP
C:0x04D4	00	NOP
C:0x04D5	00	NOP
C:0x04D6	00	NOP
C:0x04D7	00	NOP
C:0x04D8 C:0x04D9	00 00	NOP NOP
C:0x04D9	00	NOP
C:0x04DB	00	NOP
C:0x04DC	00	NOP
C:0x04DD	00	NOP
C:0x04DE	00	NOP
C:0x04DF	00	NOP
C:0x04E0	00	NOP
C:0x04E1	00	NOP
C:0x04E2	00	NOP
C:0x04E3	00	NOP
C:0x04E4	00	NOP
C:0x04E5	00 00	NOP NOP
C:0x04E6 C:0x04E7	00	NOP
C:0x04E8	00	NOP
C:0x04E9	00	NOP
C:0x04EA	00	NOP
C:0x04EB	00	NOP
C:0x04EC	00	NOP
C:0x04ED	00	NOP
C:0x04EE	00	NOP
C:0x04EF	00	NOP
C:0x04F0	00	NOP
C:0x04F1	00	NOP NOP
C:0x04F2 C:0x04F3	00 00	NOP NOP
C:0x04F3	00	NOP
C:0x04F5	00	NOP
C:0x04F6	00	NOP
C:0x04F7	00	NOP
C:0x04F8	00	NOP
C:0x04F9	00	NOP
C:0x04FA	00	NOP
C:0x04FB	00	NOP
C:0x04FC C:0x04FD	00	NOP
C:0x04FD C:0x04FE	00 00	NOP NOP
C:0x04FE C:0x04FF	00	NOP
C:0x0500	00	NOP
C:0x0501	00	NOP
C:0x0502	00	NOP
C:0x0503	00	NOP
C:0x0504	00	NOP
C:0x0505	00	NOP
C:0x0506	00	NOP
C:0x0507	00	NOP
C:0x0508	00	NOP
C:0x0509 C:0x050A	00	NOP
	0.0	MUD
C:0x050B	00 00	NOP NOP

C:0x050C	00	NOP
C:0x050D	00	NOP
C:0x050E	00	NOP
C:0x050F	00	NOP
C:0x0510	00	NOP
C:0x0511	00	NOP
C:0x0512	00	NOP
C:0x0513	00	NOP
C:0x0514	00	NOP
C:0x0515	00	NOP
C:0x0516	00	NOP
C:0x0517	00	NOP
C:0x0518	00	NOP
C:0x0519	00	NOP
C:0x051A	00	NOP
C:0x051B	00	NOP
C:0x051C	00	NOP
C:0x051D	00	NOP
C:0x051E	00	NOP
C:0x051F	00	NOP
C:0x0520	00	NOP
C:0x0521	00	NOP NOP
C:0x0522 C:0x0523	00 00	NOP
C:0x0523	00	NOP
C:0x0524	00	NOP
C:0x0526	00	NOP
C:0x0527	00	NOP
C:0x0528	00	NOP
C:0x0529	00	NOP
C:0x052A	00	NOP
C:0x052B	00	NOP
C:0x052C	00	NOP
C:0x052D	00	NOP
C:0x052E	00	NOP
C:0x052F	00	NOP
C:0x0530	00	NOP
C:0x0531	00	NOP
C:0x0532	00	NOP
C:0x0533	00	NOP
C:0x0534	00	NOP
C:0x0535	00	NOP
C:0x0536	00	NOP
C:0x0537	00	NOP
C:0x0538	00 00	NOP NOP
C:0x0539 C:0x053A	00	NOP
C:0x053R	00	NOP
C:0x053C	00	NOP
C:0x053D	00	NOP
C:0x053E	00	NOP
C:0x053F	00	NOP
C:0x0540	00	NOP
C:0x0541	00	NOP
C:0x0542	00	NOP
C:0x0543	00	NOP
C:0x0544	00	NOP
C:0x0545	00	NOP
C:0x0546	00	NOP
C:0x0547	00	NOP
C:0x0548	00	NOP
C:0x0549	00	NOP
C:0x054A C:0x054B	00	NOP NOP
C:0x054B	00 00	NOP
C:0x054D	00	NOP
C:0x054E	00	NOP
C:0x054F	00	NOP
C:0x0550	00	NOP
C:0x0551	00	NOP
C:0x0552	00	NOP
C:0x0553	00	NOP
C:0x0554	00	NOP
C:0x0555	00	NOP
C:0x0556	00	NOP
C:0x0557	00	NOP
C:0x0558	00	NOP
C:0x0559 C:0x055A	00 00	NOP
C:0x055A C:0x055B	00	NOP NOP
C:0x055B	00	NOP
C:0x055D	00	NOP
C:0x055E	00	NOP
C:0x055F	00	NOP
C:0x0560	00	NOP
C:0x0561	00	NOP
C:0x0562	00	NOP
C:0x0563	00	NOP
C:0x0564	00	NOP
C:0x0565	00	NOP
C:0x0566	00	NOP
C:0x0567	00	NOP
C:0x0568	00	NOP
C:0x0569	00	NOP
C:0x056A C:0x056B	00	NOP
C:0x056B	00 00	NOP NOP
C:0x056C	00	NOP
C:0x056E	00	NOP

C:0x056F	00	NOP
C:0x0570	00	NOP
C:0x0571	00	NOP
C:0x0572	00	NOP
C:0x0573	00	NOP
C:0x0574	00	NOP
C:0x0575	00	NOP
C:0x0576	00	NOP
C:0x0577	00	NOP
C:0x0578	00	NOP
C:0x0579	00	NOP
C:0x057A	00	NOP
C:0x057B	00	NOP
C:0x057C	00	NOP
C:0x057D	00	NOP
C:0x057E	00	NOP
C:0x057F	00	NOP
C:0x0580	00	NOP
C:0x0581	00	NOP
C:0x0582	00	NOP
C:0x0583	00	NOP
C:0x0584	00	NOP
C:0x0585	00	NOP
C:0x0586 C:0x0587	00 00	NOP NOP
C:0x0588	00	NOP
C:0x0589	00	NOP
C:0x058A	00	NOP
C:0x058B	00	NOP
C:0x058C	00	NOP
C:0x058D	00	NOP
C:0x058E	00	NOP
C:0x058F	00	NOP
C:0x0590	00	NOP
C:0x0591	00	NOP
C:0x0592	00	NOP
C:0x0593	00	NOP
C:0x0594	00	NOP
C:0x0595	00	NOP
C:0x0596	00	NOP
C:0x0597	00	NOP
C:0x0598	00	NOP
C:0x0599	00	NOP
C:0x059A	00	NOP
C:0x059B	00	NOP
C:0x059C	00	NOP
C:0x059D	00 00	NOP
C:0x059E	00	NOP NOP
C:0x059F C:0x05A0	00	NOP
C:0x05A0	00	NOP
C:0x05A2	00	NOP
C:0x05A2	00	NOP
C:0x05A4	00	NOP
C:0x05A5	00	NOP
C:0x05A6	00	NOP
C:0x05A7	00	NOP
C:0x05A8	00	NOP
C:0x05A9	00	NOP
C:0x05AA	00	NOP
C:0x05AB	00	NOP
C:0x05AC	00	NOP
C:0x05AD	00	NOP
C:0x05AE	00	NOP
C:0x05AF C:0x05B0	00 00	NOP NOP
C:0x05B0	00	NOP
C:0x05B1	00	NOP
C:0x05B3	00	NOP
C:0x05B4	00	NOP
C:0x05B5	00	NOP
C:0x05B6	00	NOP
C:0x05B7	00	NOP
C:0x05B8	00	NOP
C:0x05B9	00	NOP
C:0x05BA	00	NOP
C:0x05BB	00	NOP
C:0x05BC	00	NOP
C:0x05BD	00	NOP
C:0x05BE	00	NOP
C:0x05BF C:0x05C0	00	NOP
C:0x05C0 C:0x05C1	00 00	NOP NOP
C:0x05C1 C:0x05C2	00	NOP
C:0x05C2	00	NOP
C:0x05C3	00	NOP
C:0x05C5	00	NOP
C:0x05C6	00	NOP
C:0x05C7	00	NOP
C:0x05C8	00	NOP
C:0x05C9	00	NOP
C:0x05CA	00	NOP
C:0x05CB	00	NOP
C:0x05CC	00	NOP
C:0x05CD	00	NOP
C:0x05CE	00	NOP
C:0x05CF	00	NOP
C:0x05D0	00	NOP
C:0x05D1	00	NOP

C:0x05D2	00	NOP
C:0x05D3	00	NOP
C:0x05D4	00	NOP
C:0x05D5	00	NOP
C:0x05D6	00	NOP
C:0x05D7	00	NOP
C:0x05D8	00	NOP
C:0x05D9	00	NOP
C:0x05DA	00	NOP
C:0x05DB	00	NOP
C:0x05DC	00	NOP
C:0x05DD	00	NOP
C:0x05DE	00	NOP
C:0x05DF	00	NOP
C:0x05E0	00	NOP
C:0x05E1	00	NOP
C:0x05E2	00	NOP
C:0x05E3	00	NOP
C:0x05E4	00	NOP
C:0x05E5	00	NOP
C:0x05E6	00	NOP
C:0x05E7	00	NOP
C:0x05E8	00	NOP
C:0x05E9	00	NOP
C:0x05EA	00	NOP
C:0x05EB	00	NOP
C:0x05EC	00	NOP
C:0x05ED	00 00	NOP NOP
C:0x05EE C:0x05EF	00	NOP
C:0x05F0	00	NOP
C:0x05F1	00	NOP
C:0x05F1 C:0x05F2	00	NOP
C:0x05F2	00	NOP
C:0x05F3	00	NOP
C:0x05F5	00	NOP
C:0x05F6	00	NOP
C:0x05F7	00	NOP
C:0x05F8	00	NOP
C:0x05F9	00	NOP
C:0x05FA	00	NOP
C:0x05FB	00	NOP
C:0x05FC	00	NOP
C:0x05FD	00	NOP
C:0x05FE	00	NOP
C:0x05FF	00	NOP
C:0x0600	00	NOP
C:0x0601	00	NOP
C:0x0602	00	NOP
C:0x0603	00	NOP
C:0x0604	00	NOP
C:0x0605	00	NOP
C:0x0606	00	NOP
C:0x0607	00	NOP
C:0x0608 C:0x0609	00	NOP
C:0x0609 C:0x060A	00	NOP NOP
C:0x060A	00 00	NOP
C:0x060C	00	NOP
C:0x060D	00	NOP
C:0x060E	00	NOP
C:0x060F	00	NOP
C:0x0610	00	NOP
C:0x0611	00	NOP
C:0x0612	00	NOP
C:0x0613	00	NOP
C:0x0614	00	NOP
C:0x0615	00	NOP
C:0x0616	00	NOP
C:0x0617	00	NOP
C:0x0618	00	NOP
C:0x0619	00	NOP
C:0x061A	00	NOP
C:0x061B	00	NOP
C:0x061C C:0x061D	00	NOP NOP
C:0x061D C:0x061E	00 00	NOP
C:0x061E C:0x061F	00	NOP
C:0x061F	00	NOP
C:0x0621	00	NOP
C:0x0622	00	NOP
C:0x0623	00	NOP
C:0x0624	00	NOP
C:0x0625	00	NOP
C:0x0626	00	NOP
C:0x0627	00	NOP
C:0x0628	00	NOP
C:0x0629	00	NOP
C:0x062A	00	NOP
C:0x062B	00	NOP
C:0x062C	00	NOP
C:0x062D	00	NOP
C:0x062E	00	NOP
C:0x062F C:0x0630	00 00	NOP NOP
C:0x0630 C:0x0631	00	NOP
C:0x0631 C:0x0632	00	NOP
C:0x0632	00	NOP
C:0x0633	00	NOP

C:0x0635 C:0x0636	00 00	NOP
	0.0	
	00	NOP
C:0x0637	00	NOP
C:0x0638	00	NOP
C:0x0639		NOP
	00	
C:0x063A	00	NOP
C:0x063B	00	NOP
C:0x063C	00	NOP
C:0x063D	00	NOP
C:0x063E	00	NOP
C:0x063F	00	NOP
C:0x0640 C:0x0641	00	NOP
C:0x0641	00	NOP
C:0x0642	00	NOP
C:0x0643	00	NOP
	00	NOP
C:0x0644		
C:0x0645	00	NOP
C:0x0646	00	NOP
C:0x0647	0.0	NOP
C:0x0648	00	NOP
C:0x0649	00	NOP
C:0x064A	00	NOP
C:0x064B	00	NOP
C:0x064C	00	NOP
C:0x064C C:0x064D C:0x064E	00	NOP
C:0x064E	00	NOP
C:0x064F	00	NOP
C:0x0650	00	NOP
C.0x0050		
C:0x0651	00	NOP
C:0x0651 C:0x0652 C:0x0653	00	NOP
C:0x0653	00	NOP
C:0x0654	00	NOP
C:0x0655	00	NOP
C:0x0656		
	00	NOP
C:0x0657	00	NOP
C:0x0658	00	NOP
C:0x0658 C:0x0659	00	NOP
C:0x065A	00	NOP
C:0x065B	00	NOP
C:0x065C	00	
		NOP
C:0x065D	00	NOP
C:0x065E	00	NOP
C:0x065F	00	NOP
C:0x065E C:0x065F C:0x0660	00	NOP
C:0x0661	00	NOP
C:0x0662	00	NOP
C:0x0663	00	NOP
C:0x0664 C:0x0665 C:0x0666 C:0x0667	00	NOP
C:0x0665	00	NOP
C:0x0666	00	NOP
C:0x0667	00	NOP
C:0x0668	00	NOP
C:0x0669	00	NOP
C:0x066A	00	NOP
C:0x066B C:0x066C C:0x066D	00	NOP
C:0x066C	00	NOP
C:0x066D	00	NOP
C:0x066E	00	NOP
C:0x066F	00	NOP
C:0x0670 C:0x0671	00	NOP
C:0x0671	0.0	NOP
	00	
C:0x0672	00	NOP
C:0x0672 C:0x0673	00	NOP NOP
C:0x0671 C:0x0672 C:0x0673	00 00	NOP
C:0x0674	00 00 00	NOP NOP
C:0x0674 C:0x0675	00 00 00	NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676	00 00 00 00	NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677	00 00 00 00 00	NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678	00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677	00 00 00 00 00	NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678	00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x067A	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x067A C:0x067B	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0679 C:0x067A C:0x067B	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0679 C:0x067B C:0x067B C:0x067C	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x067A C:0x067A C:0x067C C:0x067C	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x067A C:0x067B C:0x067C C:0x067C C:0x067C	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x067A C:0x067A C:0x067C C:0x067C	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0678 C:0x067A C:0x067B C:0x067C C:0x067C C:0x067C C:0x067C C:0x067C C:0x067C C:0x067C	00 00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x067A C:0x067B C:0x067C C:0x067C C:0x067C C:0x067C C:0x067B C:0x067B C:0x067C C:0x067C C:0x067C C:0x067C C:0x067C	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0679 C:0x0679 C:0x067B C:0x067B C:0x067C C:0x067C C:0x067C C:0x067C C:0x0682 C:0x0681 C:0x0681	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0677 C:0x0677 C:0x0679 C:0x067A C:0x067A C:0x067D C:0x067C C:0x067C C:0x067C C:0x067C C:0x0682 C:0x0682 C:0x0683	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0679 C:0x067A C:0x067B C:0x067B C:0x067C C:0x067C C:0x067E C:0x067E C:0x0680 C:0x0681 C:0x0683 C:0x0683	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0679 C:0x067B C:0x067C C:0x067C C:0x067C C:0x0681 C:0x0682 C:0x0684 C:0x0684 C:0x0684	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0677 C:0x0677 C:0x0677 C:0x0678 C:0x067A C:0x067B C:0x067B C:0x067C C:0x067C C:0x067C C:0x067C C:0x068C C:0x0682 C:0x0683 C:0x0685 C:0x0685 C:0x0685	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0679 C:0x067B C:0x067C C:0x067C C:0x067C C:0x0681 C:0x0682 C:0x0684 C:0x0684 C:0x0684	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0677 C:0x0677 C:0x0679 C:0x067A C:0x067A C:0x067B C:0x067B C:0x067E C:0x067E C:0x0680 C:0x0681 C:0x0681 C:0x0683 C:0x0684 C:0x0684 C:0x06866 C:0x06866	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x067B C:0x067C C:0x067C C:0x067C C:0x0681 C:0x0682 C:0x0684 C:0x0684 C:0x0685 C:0x0685 C:0x0687 C:0x0687 C:0x0687 C:0x06887 C:0x06887	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x067A C:0x067B C:0x067B C:0x067C C:0x067C C:0x067C C:0x068C C:0x0682 C:0x0682 C:0x0683 C:0x0684 C:0x0685 C:0x0685 C:0x0686	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0677 C:0x0677 C:0x0679 C:0x067A C:0x067A C:0x067D C:0x067D C:0x067E C:0x067E C:0x0683 C:0x0682 C:0x0684 C:0x0684 C:0x0685 C:0x06867 C:0x06867 C:0x0687 C:0x0687 C:0x0687 C:0x06887 C:0x06887 C:0x06888	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0678 C:0x067B C:0x067B C:0x067C C:0x067B C:0x067E C:0x0681 C:0x0682 C:0x0684 C:0x06888 C:0x06888 C:0x06888 C:0x06888 C:0x06888 C:0x06888	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x067B C:0x067B C:0x067B C:0x067B C:0x067B C:0x0688 C:0x0682 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0678 C:0x067B C:0x067B C:0x067C C:0x067B C:0x067E C:0x0681 C:0x0682 C:0x0684 C:0x06888 C:0x06888 C:0x06888 C:0x06888 C:0x06888 C:0x06888	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x067B C:0x067B C:0x067B C:0x067B C:0x067B C:0x0688 C:0x0682 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688 C:0x0688	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0679 C:0x0678 C:0x0678 C:0x0676 C:0x0676 C:0x0676 C:0x0676 C:0x0681 C:0x0681 C:0x0682 C:0x0688 C:0x0688 C:0x06888	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x067B C:0x067B C:0x067B C:0x067C C:0x067C C:0x067C C:0x0681 C:0x0682 C:0x0683 C:0x0684 C:0x0685 C:0x0685 C:0x0686 C:0x0686 C:0x0688 C:0x0688 C:0x0688 C:0x0688	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0677 C:0x0677 C:0x0677 C:0x0677 C:0x0678 C:0x0677 C:0x0676 C:0x0677 C:0x0676 C:0x0677 C:0x0680 C:0x0682 C:0x0683 C:0x0684 C:0x06887 C:0x06887 C:0x06888 C:0x06888 C:0x06888 C:0x06888 C:0x06886 C:0x06887 C:0x06888	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0679 C:0x0678 C:0x067B C:0x067C C:0x067B C:0x067C C:0x067B C:0x0681 C:0x0681 C:0x0682 C:0x0688	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0678 C:0x0678 C:0x067B C:0x067B C:0x067B C:0x067C C:0x067C C:0x067C C:0x0681 C:0x0682 C:0x0688	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0677 C:0x0677 C:0x0677 C:0x0678 C:0x0677 C:0x0678 C:0x067D C:0x067D C:0x067E C:0x0680 C:0x0682 C:0x0683 C:0x0684 C:0x0685 C:0x06887 C:0x06886 C:0x06887 C:0x06888 C:0x06888 C:0x06889 C:0x068888 C:0x06889 C:0x06889 C:0x06889 C:0x0688888 C:0x06890 C:0x06890 C:0x06890 C:0x06990 C:0x06992 C:0x06992 C:0x06993	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0678 C:0x0678 C:0x0678 C:0x0676 C:0x0676 C:0x0676 C:0x0676 C:0x0681 C:0x0681 C:0x0684 C:0x0688 C:0x0689 C:0x0689	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0677 C:0x0677 C:0x0677 C:0x0678 C:0x0677 C:0x0678 C:0x067D C:0x067D C:0x067E C:0x0680 C:0x0682 C:0x0683 C:0x0684 C:0x0685 C:0x06860 C:0x0687 C:0x06886 C:0x06887 C:0x06888 C:0x06887 C:0x068888 C:0x06889 C:0x068888 C:0x06889 C:0x0688888 C:0x06889 C:0x06890 C:0x06890 C:0x06890 C:0x06990 C:0x06992 C:0x06992	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0678 C:0x0678 C:0x0678 C:0x0678 C:0x0676 C:0x0676 C:0x0676 C:0x0676 C:0x0681 C:0x0681 C:0x0684 C:0x0688 C:0x0689 C:0x0689	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x0674 C:0x0675 C:0x0676 C:0x0677 C:0x0677 C:0x0677 C:0x0678 C:0x067B C:0x067B C:0x067B C:0x067B C:0x067B C:0x0681 C:0x0682 C:0x0683 C:0x0684 C:0x0688 C:0x0688 C:0x06888	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x0698	00	NOP
C:0x0699	00	NOP
C:0x069A	00	NOP
C:0x069B	00	
		NOP
C:0x069C	00	NOP
C:0x069D	00	NOP
C:0x069E	00	NOP
C:0x069F	00	NOP
C:0x06A0	00	NOP
C:0x06A1	00	NOP
C:0x06A2	00	NOP
C:0x06A3	00	NOP
C:0x06A4	00	NOP
C:0x06A5	00	NOP
C:0x06A6	00	NOP
C:0x06A7	00	NOP
C:0x06A8	00	NOP
C:0x06A9	00	NOP
C:0x06AA	00	NOP
C:0x06AB	00	NOP
C:0x06AC	00	NOP
C:0x06AD	00	NOP
C:0x06AE	00	NOP
C:0x06AF	0.0	NOP
C:0x06B0	00	NOP
0.010000		
C:0x06B1	00	NOP
C:0x06B2 C:0x06B3	00	NOP
C:0x06B3	00	NOP
C:0x06B4	00	NOP
C:0x06B5	00	NOP
C:0x06B6	00	NOP
C:0x06B7	00	NOP
	00	
C:0x06B8		NOP
C:0x06B9	00	NOP
C:0x06BA	00	NOP
C:0x06BB	00	NOP
C:0x06BC	00	NOP
C:0x06BD	00	NOP
C:0x06BE C:0x06BF C:0x06C0	00	NOP
C.O.O.O.O.D.E	00	NOP
C.O.O.O.O.		
	00	NOP
C:0x06C1	00	NOP
C:0x06C2	00	NOP
C:0x06C3	00	NOP
C:0x06C4	00	NOP
C:0x06C5	0.0	NOP
C:0x06C6	00	NOP
C:0x06C7	00	NOP
C:0x06C8	0.0	NOP
	0.0	
C:0x06C9	00	NOP
C:0x06C9 C:0x06CA	00 00	NOP NOP
C:0x06C9 C:0x06CA C:0x06CB	00	NOP NOP NOP
C:0x06C9 C:0x06CA	00 00	NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC	00 00 00	NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD	00 00 00 00	NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CD	00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CE C:0x06CF	00 00 00 00	NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CE C:0x06CF	00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CE C:0x06CF	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CE C:0x06CF C:0x06D0 C:0x06D0	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CE C:0x06CF C:0x06D0 C:0x06D1 C:0x06D1	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CD C:0x06CD C:0x06CE C:0x06CF C:0x06D0 C:0x06D1 C:0x06D1 C:0x06D2 C:0x06D3	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CD C:0x06CD C:0x06CE C:0x06CF C:0x06D0 C:0x06D1 C:0x06D1 C:0x06D2 C:0x06D3	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CD C:0x06CF C:0x06D0 C:0x06D1 C:0x06D2 C:0x06D3	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CD C:0x06CF C:0x06D0 C:0x06D1 C:0x06D2 C:0x06D3	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CD C:0x06CD C:0x06D0 C:0x06D1 C:0x06D1 C:0x06D2 C:0x06D3 C:0x06D3 C:0x06D5 C:0x06D6	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CD C:0x06CD C:0x06D0 C:0x06D1 C:0x06D1 C:0x06D2 C:0x06D3 C:0x06D3 C:0x06D5 C:0x06D6	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CB C:0x06CB C:0x06CD C:0x06CD C:0x06CP C:0x06CP C:0x06D0 C:0x06D1 C:0x06D2 C:0x06D3 C:0x06D4 C:0x06D5 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6	00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CC C:0x06CF C:0x06DF C:0x06D1 C:0x06D1 C:0x06D2 C:0x06D2 C:0x06D3 C:0x06D4 C:0x06D5 C:0x06D5 C:0x06D7 C:0x06D7	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CC C:0x06D0 C:0x06D1 C:0x06D1 C:0x06D3 C:0x06D3 C:0x06D4 C:0x06D5 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D8 C:0x06D8 C:0x06D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CB C:0x06CD C:0x06CD C:0x06CD C:0x06D1 C:0x06D2 C:0x06D3 C:0x06D3 C:0x06D4 C:0x06D5 C:0x06D6 C:0x06D6 C:0x06D7 C:0x06D7 C:0x06DA	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CC C:0x06CD C:0x06CC C:0x06D0 C:0x06D1 C:0x06D1 C:0x06D3 C:0x06D3 C:0x06D4 C:0x06D5 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D6 C:0x06D8 C:0x06D8 C:0x06D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x06C9 C:0x06CA C:0x06CB C:0x06CB C:0x06CC C:0x06CE C:0x06CF C:0x06D1 C:0x06D1 C:0x06D2 C:0x06D3 C:0x06D4 C:0x06D5 C:0x06D6 C:0x06D6 C:0x06D7 C:0x06D8 C:0x06D8 C:0x06D8 C:0x06D8	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
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C:0x06FB	00	NOP
C:0x06FC	00	NOP
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C:0x06FF		NOP
	00	
C:0x0700	00	NOP
C:0x0701	00	NOP
C:0x0702	00	NOP
C:0x0703	00	NOP
C:0x0704	00	NOP
C:0x0705	00	NOP
C:0x0706	00	NOP
C:0x0707	00	NOP
C:0x0708	00	NOP
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C:0x0715	00	NOP
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C:0x071A	00	NOP
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	00	NOP
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C:0x0739	00	NOP
C:0x073A	00	NOP
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C:0x073C	00	NOP
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	00	NOP
C:0x073E	00	NOP
C:0x073F	00	NOP
C:0x0740	00	NOP
C:0x0741	00	NOP
C:0x0742	00	NOP
C:0x0743	00	NOP
C:0x0744	00	NOP
C:0x0744	00	NOP
C:0x0746	00	NOP
C:0x0747	00	NOP
C:0x0748		NOP
	00	MOD
C:0x0749	00	NOP
C:0x0749 C:0x074A		NOP
C:0x074A	00	
C:0x074A C:0x074B	00 00 00	NOP NOP
C:0x074A C:0x074B C:0x074C	00 00 00	NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D	00 00 00 00	NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074E	00 00 00 00 00	NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074E C:0x074F	00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074E C:0x074F C:0x0750	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074E C:0x074F C:0x0750 C:0x0751	00 00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074E C:0x074F C:0x0750	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074C C:0x074E C:0x074F C:0x0750 C:0x0751	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074F C:0x074F C:0x0750 C:0x0751 C:0x0752 C:0x0753	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074F C:0x074F C:0x0750 C:0x0751 C:0x0752 C:0x0753 C:0x0754	00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074C C:0x074C C:0x074F C:0x074F C:0x0750 C:0x0751 C:0x0753 C:0x0753 C:0x0754 C:0x0755	00 00 00 00 00 00 00 00 00 00	NOP
C:0x074A C:0x074B C:0x074C C:0x074D C:0x074F C:0x074F C:0x0750 C:0x0751 C:0x0752 C:0x0755 C:0x0755 C:0x0755 C:0x0756	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x074A C:0x074B C:0x074C C:0x074C C:0x074E C:0x074E C:0x0750 C:0x0751 C:0x0753 C:0x0753 C:0x0754 C:0x0755 C:0x0755	00 00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074D C:0x074D C:0x074E C:0x0750 C:0x0751 C:0x0753 C:0x0753 C:0x0754 C:0x0755 C:0x0755 C:0x0755 C:0x0755 C:0x0755	00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x074A C:0x074B C:0x074C C:0x074C C:0x074F C:0x075 C:0x0755 C:0x0753 C:0x0755 C:0x0755 C:0x0756 C:0x0755 C:0x0755 C:0x0755 C:0x0755	00 00 00 00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP NOP NOP
C:0x074A C:0x074B C:0x074D C:0x074D C:0x074E C:0x0750 C:0x0751 C:0x0753 C:0x0753 C:0x0754 C:0x0755 C:0x0755 C:0x0755 C:0x0755 C:0x0755	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x074A C:0x074B C:0x074C C:0x074E C:0x074E C:0x0756 C:0x0751 C:0x0753 C:0x0753 C:0x0754 C:0x0755 C:0x0756 C:0x0757 C:0x0758 C:0x0755 C:0x0755 C:0x0755	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x074A C:0x074B C:0x074C C:0x074C C:0x074F C:0x0750 C:0x0751 C:0x0753 C:0x0753 C:0x0755 C:0x0755 C:0x0755 C:0x0756 C:0x0756 C:0x0756 C:0x0756 C:0x0757 C:0x0758	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP
C:0x074A C:0x074B C:0x074C C:0x074E C:0x074E C:0x0756 C:0x0751 C:0x0753 C:0x0753 C:0x0754 C:0x0755 C:0x0756 C:0x0757 C:0x0758 C:0x0755 C:0x0755 C:0x0755	00 00 00 00 00 00 00 00 00 00 00 00 00	NOP

C:0x075E	00	NOP
C:0x075E	00	NOP
C:0x0760	00	NOP
C:0x0761	00	NOP
C:0x0762	00	NOP
C:0x0763	00	NOP
C:0x0764	00	NOP
C:0x0765	00	NOP
C:0x0766	00	NOP
C:0x0767	00	NOP
C:0x0768	00	NOP
C:0x0769	00	NOP
C:0x076A	00	NOP
C:0x076B	00	NOP
C:0x076C	00	NOP
C:0x076D	00	NOP
C:0x076E	00	NOP
C:0x076F	00	NOP
C:0x0770	00	NOP
C:0x0771	00	NOP
C:0x0772	00	NOP
C:0x0773	00	NOP
C:0x0774	00	NOP
C:0x0775	00	NOP
C:0x0776	00	NOP
C:0x0777	00	NOP
C:0x0778	00	NOP
C:0x0779	00	NOP
C:0x077A	00	NOP
C:0x077B	00	NOP NOP
C:0x077C	00	
C:0x077D	00	NOP
C:0x077E	00	NOP
C:0x077F	00	NOP NOP
C:0x0780 C:0x0781	00	NOP
C:0x0781 C:0x0782	00 00	NOP
C:0x0782 C:0x0783	00	NOP
C:0x0783	00	NOP
C:0x0784	00	NOP
C:0x0786	00	NOP
C:0x0787	00	NOP
C:0x0788	00	NOP
C:0x0789	00	NOP
C:0x078A	00	NOP
C:0x078B	00	NOP
C:0x078C	00	NOP
C:0x078D	00	NOP
C:0x078E	00	NOP
C:0x078F	00	NOP
C:0x0790	00	NOP
C:0x0791	00	NOP
C:0x0792	00	NOP
C:0x0793	00	NOP
C:0x0794	00	NOP
C:0x0795	00	NOP
C:0x0796	00	NOP
C:0x0797	00	NOP
C:0x0798	00	NOP
C:0x0799	00	NOP
C:0x079A	00	NOP
C:0x079B	00	NOP NOP
C:0x079C C:0x079D	00	
C:0x079E	00 00	NOP NOP
C:0x079E	00	NOP
C:0x07A0	00	NOP
C:0x07A1	00	NOP
C:0x07A2	00	NOP
C:0x07A3	00	NOP
C:0x07A4	00	NOP
C:0x07A5	00	NOP
C:0x07A6	00	NOP
C:0x07A7	00	NOP
C:0x07A8	00	NOP
C:0x07A9	00	NOP
C:0x07AA	00	NOP
C:0x07AB	00	NOP
C:0x07AC	00	NOP
C:0x07AD	00	NOP
C:0x07AE	00	NOP
C:0x07AF	00	NOP
C:0x07B0	00	NOP
C:0x07B1	00	NOP
C:0x07B2	00 00	NOP
C:0x07B3		NOP NOP
C:0x07B4		
C . O O 7 D E	00	
C:0x07B5	00 00	NOP
C:0x07B6	00 00 00	NOP NOP
C:0x07B6 C:0x07B7	00 00 00 00	NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8	00 00 00 00	NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8 C:0x07B9	00 00 00 00 00	NOP NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8 C:0x07B9 C:0x07BA	00 00 00 00 00 00	NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8 C:0x07B9	00 00 00 00 00	NOP NOP NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8 C:0x07B9 C:0x07BA C:0x07BB	00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8 C:0x07B9 C:0x07BA C:0x07BB C:0x07BC	00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8 C:0x07B9 C:0x07BB C:0x07BB C:0x07BC C:0x07BC	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP
C:0x07B6 C:0x07B7 C:0x07B8 C:0x07B9 C:0x07BA C:0x07BB C:0x07BC C:0x07BC C:0x07BD	00 00 00 00 00 00 00 00 00	NOP NOP NOP NOP NOP NOP NOP NOP

```
C:0x07C1
                           NOP
C:0x07C2
               00
                           NOP
C:0x07C3
               00
                           NUb
C:0x07C4
               00
                           NOP
               00
C:0x07C5
                           MUD
C:0x07C6
                           NOP
C:0x07C7
               00
                           NOP
C:0x07C8
                           NOP
C:0x07C9
C:0x07CA
               00
                           NUb
C:0x07CB
               00
                           NOP
C:0x07CC
               00
                           NOP
C:0x07CD
               00
                           NOP
C:0x07CE
               00
                           NOP
C:0x07CF
               00
                           NOP
C:0x07D0
               00
               00
C:0x07D1
                           NOP
C:0x07D2
C . 0 x 0 7 D 3
               0.0
                           NOP
C:0x07D4
C:0x07D5
               0.0
                           NOP
C:0x07D6
               00
C:0x07D7
               00
                           NOP
C:0x07D8
C:0x07D9
               00
                           NOP
C:0x07DA
               00
C:0x07DB
               0.0
                           NOP
C:0x07DC
C:0x07DD
               00
                           NOP
C:0x07DE
               00
                           NUb
C:0x07DF
               00
                           NOP
C:0x07E0
C:0x07E1
               00
                           NOP
C:0x07E2
               00
                           NOP
C:0x07E3
               00
                           NOP
C:0x07E4
               00
                           NUb
C:0x07E5
               00
                           NOP
               00
C:0x07E6
                           NOP
C:0x07E7
                           NOP
C:0x07E8
C:0x07E9
               00
                           NOP
                           NOP
C:0x07EA
C:0x07EB
               00
                           NUb
C:0x07EC
               0.0
                           NOP
C:0x07ED
               00
                           NOP
C:0x07EE
               00
                           NOP
C:0x07EF
               00
                           NOP
C:0x07F0
               00
                           NOP
C:0x07F1
               00
                           NOP
C:0x07F2
               00
                           NOP
C:0x07F3
C:0x07F4
               0.0
                           NOP
C:0x07F5
C:0x07F6
               0.0
                           NOP
C:0x07F7
               00
C:0x07F8
               00
                          NOP
C:0x07F9
C:0x07FA
               00
                          NOP
C:0x07FB
               00
C:0x07FC
               0.0
                           NOP
C:0x07FD
C:0x07FE
               00
                          NOP
C:0x07FF
               00
                          NOP
     71: void main (void){
                    // Start of peripheral setup
U8 TCON_save;
     73:
                    // Watchdog
WDTCN = OxDE;
     74:
                                                                    // First key
     75:
                             WDTCN(0x97),#0xDE
WDTCN = 0xAD;
C:0x0800
               7597DE
                         MOV
                                                                    // Second key - Watchdog now disabled
     76:
               // Clock
7597AD MOV
                               WDTCN(0x97),#0xAD
C:0x0803
     78:
79:
                           CLKSEL =
                                                                                          // Use 24.5MHz interal clock
// Do not divide
                                        CLKSEL_CLKSL__HFOSC
     80:
                                        CLKSEL_CLKDIV__SYSCLK_DIV_1;
                   // Port 0
     81:
C:0x0806
               FΔ
                          CI.R.
                                      A
CLKSEL(0xA9),A
                          MOV
               F5A9
C:0x0807
                              POMDOUT =
     82:
                                        POMDOUT_BO__PUSH_PULL
     83:
                                                                                            // PWM1 output
                                        POMDOUT_B1_PUSH_PULL
POMDOUT_B2_OPEN_DRAIN
POMDOUT_B3_OPEN_DRAIN
POMDOUT_B4_PUSH_PULL
     84:
                                                                                            // PWM2 output
     85:
     86:
                                                                                            // UART TX
                                        POMDOUT_B5__OPEN_DRAIN
POMDOUT_B6__OPEN_DRAIN
                                                                                            // UART RX
     88.
     90:
                                        POMDOUT_B7__OPEN_DRAIN;
                                      POMDOUT (0xA4),#0x13
C:0x0809
               75A413
                         MOV
                              P1MDOUT =

P1MDOUT_B0__OPEN_DRAIN

OPEN_DRAIN
     93:
     94:
                                         P1MDOUT_B1__OPEN_DRAIN
                                        P1MDOUT_B2__OPEN_DRAIN
P1MDOUT_B3__PUSH_PULL
     95:
                                                                                            // TEST2
// TEST1
                                        P1MDOUT_B4__PUSH_PULL
P1MDOUT_B5__OPEN_DRAIN
     97:
     98:
                                      P1MDOUT_B6__OPEN_DRAIN
P1MDOUT_B7__OPEN_DRAIN;
P1MDOUT(0xA5),#0x18
     99:
C:0x080C
               75A518
                          MOV
```

```
101:
                             P1MDIN =
   102:
                                      P1MDIN BO ANALOG
      // ADC1
   103:
                                      P1MDIN_B1__ANALOG
       // ADC2
   104:
                                      P1MDIN_B2__ANALOG
            ADC3
   105:
                                      P1MDIN_B3__DIGITAL
                                      P1MDIN_B4__DIGITAL
   106:
                                      P1MDIN_B5__DIGITAL
   107:
   108:
                                      P1MDIN_B6__DIGITAL
                                      P1MDIN_B7__DIGITAL;
                   // Port crossbar
F8 MOV P1
   110:
C:0x080F
                                   P1MDIN(0xF2),#0xF8
   111.
                            XBBO =
                                      XBRO_URTOE__ENABLED
                                                                                       // Route out UART
                                      XBRO_SPIOE__DISABLED XBRO_SMBOE__DISABLED
   113:
                                                                              1
                                      XBRO_CPOE__DISABLED
XBRO_CPOAE__DISABLED
XBRO_CP1E__DISABLED
   115:
   117:
                                      XBRO_CP1AE__DISABLED
XBRO_SYSCKE__DISABLED;
   118:
C:0x0812
              75E101
                         MOV
                                   XBR0(0xE1),#0x01
   120:
                             XRR1 =
                                      XBR1_PCAOME__CEXO_CEX1
                                                                                  // Route out PCAO and PCA1
   121:
                                      XBR1_ECIE__DISABLED
XBR1_TOE__DISABLED
   123:
   124:
                                      XBR1 T1E DISABLED
   125:
                                      XBR1_T2E__DISABLED;
C:0x0815
126:
              75E202
                         MOV
                                    XBR1(0xE2),#0x02
                            XBR2 =
                                      XBR2_WEAKPUD__PULL_UPS_ENABLED
XBR2_XBARE__ENABLED;
                                                                                      // Weak pull ups
// Enable cross bar
   127:
   128:
   129.
                   // ADC
   130:
                             //ADCOMX =
// Mux set
             in application
                                      ADCOMX_ADCOMX__ADCOP10;
                             //
   131:
C:0x0818
              75E340
                         MOV
                                    XBR2(0xE3),#0x40
                             ADCOCF =
   132:
   133:
                                      (1 << ADCOCF_ADSC__SHIFT)
   134:
                                      ADCOCF_AD8BE__NORMAL
                                                                              | // ADC set to 10 bit
| // ADC gain set to 1
                                      ADCOCF_ADGN__GAIN_1
   135:
   136
                                      ADCOCF_ADTM__TRACK_NORMAL;
// Immediate covert
C:0x081B
              75BC09
                         MOV
                                    ADCOCF (0xBC), #0x09
                            ADCOCNO &=

ADCOCNO_ADCM__FMASK;
   137:
   138:
C:0x081E
              53E8F8
                                    ADCOCNO(0xE8),#0xF8
   139:
                             ADCOCNO |=
   140:
                                      ADCOCNO_ADEN__ENABLED
   141:
                                      ADCOCNO_ADCM__ADBUSY;
                   // Timer 0
              43E880
                                    ADCOCNO(0xE8),#0x80
C:0x0821
                         ORL
   143:
                            TCON_save = TCON;
R7,TCON(0x88)
C:0x0824
              AF88
                         MOV
                             TCON &=
                                      TCON_TRO__BMASK
   145:
                                      TCON_TR1__BMASK;
   146:
                            TCON(0x88),A
TH1 = (150 << TH1_TH1__SHIFT);
C:0x0826
              F588
                         MOV
   147:
C:0x0828
              758D96
                         MOV
                            TH1(0x8D),#0x96
TL1 = (150 << TL1_TL1__SHIFT);
                            TL1(0x8B),#0x96
TCON =
   148:
C:0x082B
              758B96
                         MOV
   149:
   150:
                                      TCON_save;
                   // Timer setup
   151:
C:0x082E
              8F88
                         MOV
                                    TCON(0x88),R7
                             CKCON =
   152:
   153:
                                      CKCON_SCA__SYSCLK_DIV_12
                                      CKCON_TOM__PRESCALE
CKCON_T3MH__EXTERNAL_CLOCK
   154:
                                                                                 -
   155:
   156:
                                      CKCON_T3ML__EXTERNAL_CLOCK
                                    CKCON_T1M__SYSCLK;
CKCON(0x8E),#0x08
   157 .
              758E08
   158:
                            TMOD =
                                      TMOD_TOM__MODEO
   159:
   160:
                                      TMOD_CTO__TIMER
                                      TMOD_GATEO__DISABLED
   162:
                                      {\tt TMOD\_T1M\_\_MODE2}
   163:
                                      TMOD_CT1__TIMER
                                      TMOD_GATE1__DISABLED;
   164:
C:0x0833
              758920
                                    TMOD(0x89),#0x20
                             TCON |=
   165:
```

```
166:
                                      TCON_TR1__RUN ;
   167:
                   // UART
C:0x0836
              438840
                                    TCON(0x88),#0x40
   168:
                             SCONO |=
                                      SCONO_REN__RECEIVE_ENABLED;
   169:
                   // VREF
   170:
C:0x0839
              439810
                         ORL
                                    SCONO(0x98),#0x10
                             REFOCN
   171:
   172:
                                      REFOCN REFSL VDD PIN
                                       REFOCN_IREFLVL__1P65
   173:
                                      REFOCN_GNDSL__GND_PIN
REFOCN_TEMPE__TEMP_DISABLED;
   174:
   175:
   176
                   // RSTSRC
C:0x083C
              75D108
                         MOV
                                    REFOCN (0xD1),#0x08
   177:
                             RSTSRC
                                      RSTSRC_CORSEF__NOT_SET
   179:
                                      RSTSRC_MCDRSF__SET
   180 .
                                      BSTSRC PORSE SET
                                      RSTSRC_SWRSF__NOT_SET;
   181:
                   // Interrupt
   182:
                                    RSTSRC(0xEF),#0x06
C:0x083F
              75EF06
                        MOV
                             IE =
                                       IE_EA__ENABLED
   184:
                                                                1
                                       IE_EXO__DISABLED
   186:
                                       IE_EX1__DISABLED
   187:
                                      IE_ESPIO__DISABLED
   188:
                                       IE_ETO__DISABLED
   189:
                                       IE_ET1__ENABLED
                                                                           // Timer 1 enabled
   190:
                                      IE_ET2__ENABLED
         // Timer 2 enabled
   191:
                                       IE_ESO__ENABLED;
C:0x0842
192:
              75A8B8
                         MOV
                                    IE(0xA8),#IP(0xB8)
                            IP =
   193:
                                       IP_PXO__LOW
   194:
                                       IP_PX1__LOW
   195:
                                      IP_PSPIO__LOW
IP_PTO__LOW
   196:
   197:
                                      IP_PT1__LOW
   198 -
                                       IP_PT2__HIGH
                                                                            | // Timer 2 highest priority
                                       IP_PSO__LOW;
   199:
   200:
                   // PCA
C:0x0845
              75B820
                         MOV
                                    IP(0xB8),#0x20
   201:
                            PCAOCN_CR = PCAOCN_CR__STOP;
   202:
C:0x0848
              CODE
                         CLR
                                    PCAOCN_CR(0xD8.6)
                             PCAOCPMO
   204:
                                      PCAOCPMO_CAPN__DISABLED
                                      PCAOCPMO_ECCF__ENABLED
PCAOCPMO_MAT__ENABLED
PCAOCPMO_CAPP__DISABLED
   205:
   207:
                                      PCAOCPMO_ECOM__ENABLED PCAOCPMO_PWM__ENABLED
   208:
                                    PCAOCPMO_TOG__DISABLED;
PCAOCPMO(0xDA),#0x4B
   210:
C:0x084A
              75DA4B
                         MOV
                             PCAOCPM1 =
   211:
                                      PCAOCPM1_CAPN__DISABLED
                                      PCAOCPM1_ECCF__ENABLED
PCAOCPM1_MAT__ENABLED
   213:
   214:
   215:
                                       PCAOCPM1_CAPP__DISABLED
1
   216:
                                      PCAOCPM1_ECOM__ENABLED
                                      PCAOCPM1_PWM__ENABLED
   217:
   218
                                    PCAOCPM1_TOG__DISABLED;
PCAOCPM1(0xDB),#0x4B
C:0x084D
              75DB4B
                         MOV
   219.
                             PCAOMD =
   220:
                                      PCAOMD_CIDL__NORMAL
                                      PCAOMD_ECF__OVF_INT_DISABLED PCAOMD_CPS__SYSCLK;
   221:
   222:
C:0x0850
              75D908
                         MOV
                                    PCAOMD(0xD9),#0x08
                            PCAOCN |=
   223:
   224:
                                      PCAOCN_CR__RUN;
   225:
                   // Timer 2
                            PCAOCN(0xD8),#0x40
TMR2CN |= TMR2CN_TR2__RUN;
C:0x0853
              43D840
                         ORL
   226:
   227 .
                   // End of peripheral setup
C:0x0856
              43C804
                         ORI.
                                    TMR2CN (0xC8), #0x04
   229:
                   enabled
                                       = false;
              C202
                                    enabled (0x20.2)
C:0x0859
                        CLR
                   integral
                                      = 0;
                                    - o,
integral(0x2E),A
0x2F,A
C:0x085B
              F52E
                         MOV
C:0x085D
                         MOV
                                    = DEFAULT_OUT_MV;
target_mV(0x25),#0x13
0x26,#TCON(0x88)
   231:
                   target_mV
C:0x085F
              752513
              752688
C:0x0862
                         MOV
   232:
                   {\tt high\_mV}
                                DEFAULT_HIGH_MV;
              752870 MOV
C:0x0865
                                    high_mV(0x27),#0x17
                              0x28,#0x70
= DEFAULT_LOW_MV;
C:0x0868
   233:
                   low mV
```

```
234:
             75370F
                                  low mV(0x37),#0x0F
C:0x086B
                       MOV
C:0x086E
             7538A0
                       MOV
                                  0x38,#0xA0
                 SCONO_TI
                                  = 1;
SCONO_TI(0x98.1)
  235:
C:0x0871
             D299
                       SETB
                  SCONO_RI
   236:
                                    = 0;
   237:
C:0x0873
             C298
                       CLR
                                  SCONO_RI(0x98.0)
   238:
                  while (1){
   239:
                           if(SCONO_RI){
                       JNB
C:0x0875
             3098FD
                                  SCONO_RI(0x98.0),C:0875
                                  SCONO_RI = 0;
SCONO_RI(0x98.0)
uart_in[4] = uart_in[3];
   240:
C · 0 x 0878
             C298
                       CI.R
   241:
// Small buffer, less code not to use loop
C:0x087A
             853536
                                  0x36,0x35
                       MOV
                                  uart_in[3] = uart_in[2];
0x35,0x34
  242:
C:0x087D
             853435
                       MOV
                                    uart_in[2] = uart_in[1];
   243.
C:0x0880
             853334
                       MOV
                                  0x34,0x33
                                    uart_in[1] = uart_in[0];
  244:
C:0x0883
             853233
                        MOV
                                  0x33,uart_in(0x32)
                                    uart_in[0] = SBUF0;
   245:
   246
             859932
                                  uart_in(0x32),SBUF0(0x99)
C:0x0886
                       MOV
   247:
                                    uartLoadOut(uart_in[0]);
   248:
C:0x0889
             AF32
                        MOV
                                  R7, uart_in(0x32)
C:0x088B
             120B9C
                       LCALL
                                  uartLoadOut(C:0B9C)
  switch(uart_in[0]){
   249.
C:0x088E
             E532
                        MOV
                                  A,uart_in(0x32)
C:0x0890
C:0x0893
                        LCALL
INC
                                  C?CCASE(C:OAA6)
             120 AA6
             08
C:0x0894
             B56108
                        CJNE
                                  A,0x61,C:089F
                                  R5,#0x63,C:08A2
C:0x0897
             BD6308
                        CJNE
C:0x089A
             C564
                        XCH
                                  A,0x64
C:0x089C
             80
                        INC
                                  RO
                                  A, R5
             CD
67
C:0x089D
                        XCH
C:0x089E
                                  A, @R1
                        XRL
C:0x089F
C:0x08A0
                                  RO
R2,C:090F
             08
                        TNC
             DA6D
                        DJNZ
C:0x08A2
C:0x08A3
             08
                        TNC
                                  RO
             E2
                        MOVX
                                  A, @RO
C:0x08A4
             6 E
                        XRI.
                                  A,R6
                        INC
C:0x08A5
             08
                                  RO
                                  A, @RO
@A+DPTR
C:0x08A6
             D6
                        XCHD
C:0x08A7
             73
                        JMP
C:0x08A8
             08
                        TNC
                                  R.O
C:0x08A9
             ΕA
                        MOV
                                  A,R2
C:0x08AA
             7808
                        MOV
                                  RO,#0x08
@RO,A
C:0x08AC
             F2
                        MOVX
                                  R1,#0x08
R2,A
C . O x O 8 A D
             7908
                        MOV
C:0x08AF
                                  R2,#0x00
             7 A O O
C:0x08B0
                        MOV
C:0x08B2
C:0x08B3
             09
                        INC
                                  R1
C:0x08B4
                                  @RO
   250:
                                             case 'a':
                                                                uartNumbers(target_mV,true);
C:0x08B5
             D200
                        SETB
                                  0x20.0
                                  R7,0x26
R6,target_mV(0x25)
C:0x08B7
             AF26
                        MOV
C:0x08B9
             AE25
                        MOV
  251:
                                                                         break:
C:0x08BB
             8043
                       SJMP
                                  C - 0900
                                             case 'c':
                                                                uartNumbers(current, true);
  252:
C:0x08BD
             D200
                        SETB
                                  0x20.0
                                  R7.0x22
C:0x08BF
             AF22
                        MOV
C:0x08C1
             AE21
                        MOV
                                  R6, current (0x21)
  253:
                                                                         break;
C:0x08C3
             803B
                        SJMP
                                  C:0900
                                             case 'd':
                                                                uartNumbers(duty,true);
  254:
C:0x08C5
             AF29
                        MOV
                                  R7, duty(0x29)
C:0x08C7
             7E00
                        MOV
                                  R6,#0x00
C:0x08C9
             D200
                        SETB
                                  0x20.0
   255:
                                                                         break;
C:0x08CB
             8033
                       SJMP
                                  C:0900
  256:
                                             case 'g':
                                                                enabled
                                                                               = true;
C:0x08CD
             D202
                        SETB
                                  enabled(0x20.2)
   257:
                                                                         integral
= 0;
C:0x08CF
                        CLR
C:0x08D0
             F52E
                        MOV
                                  integral(0x2E),A
C:0x08D2
             F52F
                        MOV
                                  0x2F,A
  258:
                                                                         break;
C:0x08D4
             809F
                        SJMP
                                                                               = false;
  259 .
                                             case 's':
                                                                enabled
C:0x08D6
             C202
                        CLR
                                  enabled(0x20.2)
  260:
                                                                         break:
C:0x08D8
             809B
                        SJMP
                                  C:0875
                                             case 'm':
                                                                uartNumbers(high_mV, true);
  261:
C:0x08DA
             D200
                        SETB
                                  0x20.0
                                  R7,0x28
R6,high_mV(0x27)
C:0x08DC
             AF28
                        MOV
C:0x08DE
             AE27
                        MOV
  262:
                                                                         break:
C:0x08E0
             801E
                        SJMP
                                  C:0900
                                             case 'n':
                                                                uartNumbers(low mV.true):
  263:
C:0x08E2
             D200
                        SETR
                                  0 x 20 . 0
             AF38
C:0x08E4
                        MOV
                                  R7,0x38
C:0x08E6
             AE37
                        MOV
                                  R6,low_mV(0x37)
   264:
                                                                         break:
```

```
C:0x08E8
              8016
                        SJMP
                                   C:0900
                                              case 'x':
                                                                 uartNumbers(adc1.true):
  265:
C:0x08EA
              D200
                        SETR
                                   0x20.0
                                   R7,0x2B
R6,adc1(0x2A)
C:0x08EC
              AF2B
                        MOV
C:0x08EE
266:
              AE2A
                        MOV
                                                                          break;
C:0x08F0
              800E
                        SJMP
                                   C:0900
                                              case 'y':
                                                                 uartNumbers(adc2,true);
   267:
C:0x08F2
C:0x08F4
              D200
                        SETR
                                   0 x 20 . 0
              AF2D
                        MOV
                                   R7,0x2D
C:0x08F6
              AE2C
                        MOV
                                   R6,adc2(0x2C)
   268:
                                                                          break;
C:0x08F8
              8006
                        SIMP
                                   C · 0900
   269:
                                              case 'z':
                                                                 uartNumbers(adc3,true);
C:0x08FA
              D200
                        SETB
                                   0x20.0
C:0x08FC
              AF31
                        MOV
                                   R7,0x31
                                  R6,adc3(0x30)
uartNumbers(C:0AF9)
C:0x08FE
              AE30
                        MOV
C:0x0900
                        LCALL
              120AF9
   270 .
                                                                          break:
C:0x0903
              020875
                        LJMP
                                   C:0875
                                                                 switch(uart_in[4]){
   271:
                                              default:
C:0x0906
              E536
                                   A,0x36
C:0x0908
              2494
                        ADD
                                   A.#0x94
C:0x090A
              601B
                                   C:0927
                        ADD
                                   A,#0xF6
C:0x090C
              24F6
C:0x090E
              6027
                                   C:0937
C:0x0910
              240E
                        ADD
                                   A.#0x0E
C:0x0912
              6003
                                   C:0917
C:0x0914
             020875
                        LJMP
                                   C:0875
                                                                                   case 'h':
   272:
                           = uartNumbers(high_mV,false);
high_mV
C:0x0917
C:0x0919
                        CLR
MOV
              C200
                                  0x20.0
R7,0x28
              AF28
C:0x091B
              AE27
                        MOV
LCALL
                                   R6,high_mV(0x27)
              120AF9
C:0x091D
                                   uartNumbers(C:OAF9)
C:0x0920
              8E27
                        MOV
                                   high_mV(0x27),R6
                        MOV
C:0x0922
             8F28
                                   0x28,R7
   273:
break;
C:0x0924
             020875
                        {\tt LJMP}
                                   C:0875
                                                                                    case 'l':
274:
low_mV =
           uartNumbers(low_mV,false);
C:0x0927
             C200
                                   0x20.0
                        CLR
C:0x0929
              AF38
                        MOV
                                   R7,0x38
                                   R6,low_mV(0x37)
C:0x092B
              AE37
                        MOV
                                   uartNumbers (C:OAF9)
low_mV(0x37),R6
C:0x092D
              120AF9
                        LCALL.
                        MOV
C:0x0930
              8E37
C:0x0932
             8F38
                        MOV
                                   0x38,R7
   275:
break;
C:0x0934
             020875
                       LJMP
                                   C:0875
                                                                                   case 'v':
   276:
                = uartNumbers(target_mV,false);
target_mV
                                  0x20.0
R7,0x26
C:0x0937
              C200
                        CI.R.
              AF26
                        MOV
C:0x0939
                                   R6,target_mV(0x25)
C:0x093B
              AE25
                        MOV
                                   uartNumbers (C:OAF9)
target_mV(0x25),R6
0x26,R7
C:0x093D
              120AF9
                        LCALL
C:0x0940
              8E25
                        MOV
C:0x0942
              8F26
                        MOV
  277:
             = 0;
integral
                        CLR
C:0x0944
C:0x0945
              F52E
                        MOV
                                   integral(0x2E),A
C:0x0947
             F52F
                        MOV
                                   0x2F,A
break:
   0x0949 020875 LJMP C:0875
341: INTERRUPT (TIMER2_ISR, TIMER2_IRQn){
C:0x0949
                                                                     // One timer handling UART Tx and PID
   342:
                  int out;
   343:
                  int error;
C:0x094C
              COFO
                        PUSH
                                   0 x E.O
              COFO
C:0x094E
                                   0 x F 0
C:0x0950
              CODO
                        PUSH
                                   0 x D 0
                        MOV
              75D000
                                   0xD0,#0x00
C:0x0952
                        PIISH
                                   0x00
0x04
C:0x0955
              C000
                        PUSH
C:0x0957
              C004
C:0x0959
              C005
                        PIICH
                                   0 x 0 5
              C006
                        PUSH
C:0x095B
                                   0x06
C:0x095D
             C007
                        PUSH
                                   0x07
                  TEST1 = 1;
   344:
   345:
   346:
             adc1 = readAdc(ADC1);
7F08 MNV P7 ""
C:0x095F
                                  TEST1 (0x90.4)
  347:
C:0x0961
                                  R7,#0x08
readAdc(C:0B7B)
              120B7B
                        LCALL
C:0x0966
              8E2A
                        MOV
                                   adc1(0x2A),R6
C:0x0968
                        MOV
                                   0x2B,R7
             8F2B
                 adc2
   348:
                        = readAdc(ADC2);
             7F09
120B7B
                        MOV
LCALL
C:0x096A
                                  R7,#0x09
                                   readAdc(C:OB7B)
C:0x096C
C:0x096F
              8E2C
                        MOV
                                   adc2(0x2C),R6
             adc3
7F0A
127
C:0x0971
                        MOV
                                   0x2D.R7
                        = readAdc(ADC3);
MOV R7,#0x0
C:0x0973
                                  R7,#0x0A
                        LCALL
              120B7B
C:0x0975
                                   readAdc(C:0B7B)
             8E30
                        MOV
C:0x0978
                                   adc3(0x30),R6
                  MOV 0x31,R7
current = (adc2 - adc3)*10;
C:0x097A
             8F31
   350:
```

```
351:
C:0x0970
                        CLR
                                   A,0x2D
C:0x097D
              E52D
                         MOV
                         SUBB
                                   A,0x31
R7,A
A,adc2(0x2C)
C:0x097F
              9531
C:0x0981
                         MOV
              E52C
                        MOV
C:0x0982
C:0x0984
              9530
                         SUBB
                                   A,adc3(0x30)
R6,A
C:0x0986
                         MOV
              FΕ
                                   R4,#0x00
R5,#0x0A
              7000
C:0x0987
                         MUA
C:0x0989
              7D0A
                         MOV
                                   C?IMUL(C:0A2C)
current(0x21),R6
C:0x098B
              120A2C
                         LCALL
C:0x098E
                         MOV
              8E21
                             0x22,R7 < low_mV) || (adc1 > high_mV)){
C:0x0990
              8F22
                         MOV
             if((adc1
   352:
                                                                                    // Watch input voltage
C:0x0992
              E52B
                                   A,0x2B
C:0x0993
                         MOV
C:0x0995
              9538
                         SUBB
                                   A,0x38
C:0x0997
                                   A,adc1(0x2A)
              E52A
                                   A,low_mV(0x37)
C:09A8
C · 0 × 0999
              9537
                         SHER
                        JC
SETB
C:0x099B
              400B
C:0x099D
              D3
              E52B
C:0x099E
                                   A,0x2B
                         SUBB
C:0x09A0
              9528
                                   A.0x28
C:0x09A2
                         MOV
                                   A,adc1(0x2A)
                         SUBB
                                   A, high_mV(0x27)
C:0x09A4
              9527
C:0x09A6
              4002
                         JC
                                   C:09AA
   353:
                            enabled = false;
C:0x09A8
              C202
                        CLR
                                   enabled(0x20.2)
   354:
   355:
   356:
              357:
C:0x09AA
                                                                                    // PID controller
C:0x09AC
              AF31
AC25
                                   R4,target_mV(0x25)
R5,0x26
C:0x09AE
                         MOV
C:0x09B0
              AD26
                         MOV
C:0x09B2
              СЗ
                         CLR
                                   C
A,R5
C:0x09B3
              ED
                         MOV
              9 F
                        SUBB
C:0x09B4
                                   A, R7
C:0x09B5
C:0x09B6
              FF
EC
                                   R7,A
A,R4
                         MOV
                         MOV
C:0x09B7
C:0x09B8
              9 E
                         SHER
                                   A,R6
R6,A
              FE
                         MOV
                                error;
   358:
                  integral +=
C:0x09B9
              EF
                        MOV
                                   A,R7
                                   A,0x2F
0x2F,A
C:0x09BA
              252F
                         ADD
              F52F
C:0x09BC
                         MOV
                                   A,R6
A,integral(0x2E)
C:0x09BE
              EE
                         MOV
C:0x09BF
              352E
                         ADDC
C:0x09C1
              F52E
                        MOV
                                   integral(0x2E),A
P) + (integral*I)) >> 10; // Divide by 1024
              out
7C00
                         ((error
                                   R4,#0x00
C · 0 × 0 9 C 3
                        MOV
C:0x09C5
              7D05
                         MOV
                                   R5,#0x05
              120 A2C
C:0x09C7
                         LCALL.
                                   C?IMUL(C:0A2C)
C:0x09CA
              ACO6
                                   R4,0x06
C:0x09CC
              AD07
                         MOV
                                   R5.0x07
C:0x09CE
                                   A,0x2F
C:0x09D0
              25E0
                         ADD
                                   A,0xE0
C:0x09D2
              FF
                                   A,integral(0x2E)
              E52E
C:0x09D3
                         MOV
C:0x09D5
                                   R6.A
C:0x09D6
              FE
                         MOV
C:0x09D7
              ED
                         MOV
C:0x09D8
              2F
                         ADD
                                   A, R7
C:0x09D9
C:0x09DA
              FF
EC
                                   R7,A
A,R4
                         MOV
              3E
FE
C:0x09DB
                         ADDC
                                   A,R6
C:0x09DC
                         MOV
                                   R6,A
C:0x09DD
              EF
                         MOV
                                   A,R7
              780A
                                   RO,#0x0A
C:0x09DE
                         MOV
C:0x09E0
              CE
                         XCH
                                   A,R6
C,0xE0.7
              A2E7
C:0x09E1
                         MOV
C:0x09E3
              13
CE
                         RRC
                                   A
A,R6
C:0x09E4
                         XCH
C:0x09E5
C:0x09E6
              13
D8F8
                         RRC
                                   RO,C:09E0
                         DJNZ
C:0x09E8
360:
                 MOV R7,A
if((out < 0) || (!enabled)){
CLR C
              FF
C:0x09E9
              C3
                                   A,R6
C:0x09EA
              EE
                        MOV
C:0x09EB
              6480
                         XRI.
                                   A,#0x80
                                   A,#0x80
C:0x09ED
              9480
                         SUBB
                        JC
C:0x09EF
              4003
                                   C:09F4
              200202
                         JВ
                                   enabled(0x20.2),C:09F6
C:0x09F1
                           out = 0;
V R7,#0x00
   361 .
C:0x09F4
              7F00
                         MOV
              }
   362:
363:
                  duty = out;
                  9 MOV duty(0x29),R7
PCAOCPHO = PCAOCPH1 = 0xFF - out;
              8F29
C:0x09F6
   365:
   366:
   367:
C:0x09F8
                        CLR
                                   С
                                   A,#0xFF
A,R7
PCAOCPH1(0xEA),A
              74FF
C:0x09F9
                        MOV
              9F
F5EA
C:0x09FB
                         SUBB
                        MOV
C:0x09FC
             F5FC MOV : ...
if (head != tail) {
C:0x09FE
                                   PCAOCPHO(OxFC), A
   368:
```

```
C:0x0A00
              E523
                         MOV
                                    A, head (0x23)
                                    A, tail(0x24)
C:0x0A02
              6524
                         XRL
C:0x0A04
              600E
                         JZ
                                    C:0A14
                                    = uart_out[tail];
R7,tail(0x24)
A,#uart_out(0x39)
                             SBUFO
                                                               // Timer tuned so no need to check
369:
C:0x0A06
               AF24
                         мол
C:0x0A08
                         MOV
              7439
C:0x0A0A
              2F
F8
                         ADD
                                    A,R7
RO,A
C:0x0A0B
                         MOV
C:0x0A0C
C:0x0A0D
                                    A, @RO
SBUFO(0x99), A
              E6
                         MOV
              F599
                         MOV
                         tail++; // Transmit UART
INC tail(0x24)
   370:
C:0x0A0F
              0524
                            tail(Ux24)
tail %= UART_SIZE_OUT;
L tail(0x24),#0x07
   371 .
                                                                    // Wrap around
                         ANL
C:0x0A11
              532407
   372:
   374:
                   TMR2H = 255;
                                                                              // Runs at 4KHz
C . 0 x 0 A 1 4
              75 CDFF MOV
                                    TMR2H(0xCD),#0xFF
                 TMR2CN_TF2H =
// Enable interrupt again C:0x0A17 C2CF CLR
             C2CF CLR
TEST1 = 0;
                                    TMR2CN_TF2H(0xC8.7)
   377:
// Timing debug
C:0x0A19 C294
C:0x0A19
                         CLR
                                    TEST1 (0x90.4)
   378: }
C:0x0A1B
              D007
                         POP
                                    0×07
               D006
                         POP
                                    0x06
C:0x0A1F
              D005
                         POP
                                    0x05
C:0x0A21
              D004
                         POP
                                    0x04
C:0x0A23
              D000
                         POP
                                    0x00
C:0x0A25
C:0x0A27
               DODO
                                    0 x D 0
              DOFO
                         POP
                                    0xF0
C:0x0A29
              DOEO
                         POP
                                    0 x E 0
C:0x0A2B
              32
                         RETI
                    C?IMUL:
              EF
C:0x0A2C
                         MOV
                                    A,R7
C:0x0A2D
C:0x0A2F
                                    0xF0,R5
              8DF0
                         MOV
              A4
                         MUL
              A8F0
CF
C:0x0A30
                         MOV
                                    RO,0xF0
C:0x0A32
                         XCH
                                    A, R7
              8CF0
C:0x0A33
C:0x0A35
                         мпу
                                    0xF0.R4
              A4
                                    AB
C:0x0A36
              28
                         ADD
                                    A . R.O
              CE
C:0x0A37
                         XCH
                                    A , R6
C:0x0A38
              8DF0
                         MOV
                                    0xF0.R5
C:0x0A3A
              A4
                         MUL
                                    AB
                                    A . R.6
C:0x0A3B
              2 E
                         ADD
C:0x0A3C
                         MOV
                                    R6,A
C:0x0A3D
              22
                         RET
                    C?UIDIV:
                                    R4.#0x00,C:0A4C
C:0x043E
              BCOOOB
                         CJNE
              BE0029
                                    R6,#0x00,C:0A6D
C:0x0A44
              EF
                         MOV
                                    A, R7
C:0x0A45
              8DF0
                                    0xF0,R5
C:0x0A47
              84
                         DIV
                                    AB
C:0x0A48
              ADFO
                                    R5,0xF0
C:0x0A49
                         MOV
C:0x0A4B
              22
C:0x0A4C
              E.4
                         CI.R.
C:0x0A4D
                                    A,R4
C:0x0A4E
              F8
                         MOV
                                    RO.A
C:0x0A4F
              75F008
EF
                         MOV
                                    0xF0,#0x08
C:0x0A52
                         MOV
                                    A, R7
C:0x0A53
C:0x0A54
                                    A,R7
R7,A
              2 F
              FF
                         MOV
C:0x0A55
              EE
                         MOV
                                    A,R6
C:0x0A56
              33
                         RLC
C:0x0A57
              FE
                         MOV
                                    R6.A
C:0x0A58
              EC
                         MOV
                                    A, R4
C:0x0A59
              33
FC
                         RLC
                                    R4,A
C:0x0A5A
                         MOV
C:0x0A5B
              EE
                         MOV
                                    A,R6
                         SUBB
C:0x0A5C
              9 D
                                    A,R5
                                    A,R4
A,R0
C:0x0A5D
              EC
                         MUA
C:0x0A5E
                         SUBB
              98
C:0x0A5F
              4005
                         TC
                                    C:0A66
              FC
                         MOV
C:0x0A61
                                    R4,A
C:0x0A62
              EE
                         MOV
                                    A,R6
C:0x0A63
              9 D
                         SUBB
                                    A,R5
C:0x0A64
              FE
                         MOV
                                    R6,A
C:0x0A65
              ΟF
                          INC
                                    R7
                                    0xF0,C:0A52
C:0x0A66
              D5F0E9
                         DJNZ
C:0x0A69
              E4
                         CLR
                                    A R6
C . O x O A 6 A
              CE
                         XCH
C:0x0A6B
C:0x0A6C
              22
                         RET
C:0x0A6D
              ED
C:0x0A6E
              F8
                         MOV
                                    RO.A
C:0x0A6F
              F5F0
                                    0xF0,A
C:0x0A71
              EE
                         MOV
                                    A,R6
C:0x0A72
                                    0xD0.2,C:0A92
C:0x0A73
              20D21C
                         JB.
                          MOV
                                    R6,A
              ADFO
75F008
EF
                                    R5.0xF0
C:0x0A77
                         MOV
C:0x0A79
                         MOV
                                    0xF0,#0x08
C:0x0A7C
                         MOV
                                    A, R7
C:0x0A7D
C:0x0A7E
                                    A,R7
R7,A
                         MOV
```

```
C:0x0A7F
               ED
                           MOV
                                       A,R5
C:0x0A80
               33
                           RLC
                                       R5,A
C:0A8B
C:0x0A81
               FD
                           MOV
C:0x0A82
               4007
                           JC
                                       A, RO
C:0A8D
C:0x0A84
               98
                           SHER
C:0x0A85
               5006
                           JNC
C:0x0A87
C:0x0A8A
               D5F0F2
                           DJNZ
                                       0xF0,C:0A7C
               22
                           RET
C:0x0A8B
C:0x0A8C
               СЗ
                           CLR
                                       С
               98
                           SUBB
                                       A,RO
C:0x0A8D
               FD
                           MOV
                                       R5,A
               0 F
                           INC
C:0x0A8E
                                       R7
               D5F0EA
                                       0xF0.C:0A7C
C:0x0A8F
                           D.INZ
C:0x0A92
               22
                           RET
                      C?ULSHR:
C:0x0A93
               E8
                           MOV
                                       A,RO
C:0x0A94
C:0x0A96
               600F
EC
                           JZ.
                                       C:OAA5
                                       A,R4
               C3
13
C . 0 x 0 A 9 7
                           CI.R
C:0x0A98
               FC
ED
C:0x0A99
                           MOV
                                       R4.A
C:0x0A9A
                                       A , R5
C:0x0A9B
               13
                           RRC
C:0x0A9C
                                       A, R6
C:0x0A9D
               EE
                           MOV
C:0x0A9E
                13
               FE
                                       R6 . A
C:0x0A9F
                           MOV
C:0x0AA0
                EF
                           MOV
                                       A , R7
C:0x0AA1
               13
                           RRC
C:0x0AA2
               FF
                           MOV
                                       R7.A
                           DJNZ
                                       RO,C:0A96
C:0x0AA3
               D8F1
                     RET
C?CCASE:
C:0x0AA5
                22
C:0x0AA6
               D083
                           POP
                                       0x83
C:0x0AA8
C:0x0AAA
               D082
                           POP
                                       0x82
               F8
                           MOV
                                       RO,A
C:0xOAAB
               E4
                           CLR
                                       A, @A+DPTR
               93
7012
C:0x0AAC
                           MOVC
C:0xOAAD
                                       C:0AC1
                           JNZ
C:0x0AAF
C:0x0AB1
                                      A,#0x01
A,@A+DPTR
                7401
                           MOV
                           MOVC
               93
C:0x0AB2
C:0x0AB4
               700D
                           JNZ
INC
                                       C:OAC1
DPTR
               AЗ
C:0x0AB5
               А3
                           TNC
                                       DPTR
                           MOVC
                                       A, @A+DPTR
C:0x0AB6
               93
               F8
7401
                                      RO,A
A,#0x01
C:0x0AB7
                           MOV
C:0x0AB8
                           MOV
C:0xOABA
               93
                           MOVC
                                       A, @A+DPTR
C:0xOABB
               F582
                           MOV
                                       0x82,A
C:0x0ABD
C:0x0ABF
               8883
                           MOV
                                       0x83,R0
                           CLR
                E4
                                       ØA+DPTR
C . O x O A C O
               73
                           TMP
C:0x0AC1
                7402
C:0x0AC3
               93
                           MOVC
                                       A, @A+DPTR
C:0x0AC4
                                       A,RO
               68
                           XRL
                                       C:OAB6
C:0x0AC5
               60EF
                           JΖ
C:0x0AC7
               AЗ
                                       DPTR
C:0x0AC8
               AЗ
                           INC
                                       DPTR
C:0x0AC9
C:0xOACA
               80DF
                           SJMP
                                       C:OAAB
                      C?LI
C:0x0ACC
               EC
                                       A.R4
                           MOV
C:0xOACD
               8EF0
                           MOV
                                       0xF0,R6
C:0xOACF
                                       AB
               A4
                           MUL
C:0x0AD0
C:0x0AD1
               CC
C5F0
                                       A,R4
                                       A.OxFO
                           XCH
C:0x0AD3
C:0x0AD4
               CC
                           XCH
                                       A,R4
                           XCH
                                       A,R5
               F8
EF
                                      RO,AAA,R7
C:0x0AD5
                           MOV
C:0x0AD6
                           MOV
C:0x0AD7
C:0x0AD8
               A4
CE
                           MUL
                                       AB
                                       A,R6
                           XCH
C:0x0AD9
C:0x0ADB
               C5F0
                           XCH
                                       A,0xF0
               2 D
                           ADD
                                       A,R5
C:0x0ADC
C:0x0ADD
               FD
E4
                           MOV
                                       R5,A
                           CLR
               3C
FC
                                       A,R4
C:0xOADE
                           ADDC
C:0xOADF
                           MOV
                                       R4,A
C:0x0AE0
C:0x0AE1
               E8
A4
                           MOV
                                      A,RO
AB
                           MUL
                                       A,R6
C:0x0AE2
               2 E
                           ADD
C:0x0AE3
               С8
                           XCH
                                       A,RO
C:0x0AE4
C:0x0AE6
               C5F0
3D
                                      A,0xF0
A,R5
                           XCH
                           ADDC
C:0x0AE7
               FD
                           MOV
                                       R5,A
C:0x0AE8
                                       ..
A,R4
C:0x0AE9
               3C
FC
                           ADDC
C:0xOAEA
                                       R4 , A
               EF
C:0x0AEB
                           MOV
                                       A.R7
C:0xOAEC
               A4
FF
                                       ΑĎ
                                       R7,A
C:0x0AED
                           MOV
C:0x0AEE
               E5F0
               28
FE
                                       A,RO
R6,A
C:0x0AF0
                           ADD
C:0x0AF2
               E4
                           CLR
                                       A, R5
C:0x0AF3
               ЗD
                           ADDC
C:0x0AF4
               FD
                           MOV
                                       R5,A
C:0x0AF5
C:0x0AF6
                                       A
A,R4
                           ADDC
```

```
C:0x0AF7
             FC
                       MOV
                                  R4,A
C:0x0AF8
             22
                       RET
   296: U16 uartNumbers(U16 toSend, bool transmit){
                                                                         // Tx/Rx up to 4 length numbers over UART
   297:
             U16 out = toSend;
8E08 MOV 0x08,R6
C:0x0AF9
C:0xOAFB
             8F09
                       MOV
                                  0x09,R7
298:
C:0x0AFD
             U16 num = 0;
E4 CLR
C:0xOAFE
             FB
                       MOV
                                  R3 A
C:0xOAFF
             FA
                       MOV
                                  R2,A
                 U16 scale = 10000;
   299:
   300:
                 U8 test;
            902710 MOV
U8 i = 4;
C . 0 x 0 B 0 0
                                 DPTR #0x2710
  301:
             750B04
C:0x0B03
             bool bad = false;
                      MOV
                                 0x0B.#0x04
   302:
C:0x0B06
                                 0x20.1
303: CLR while(i){
// On zero done
C:0x0P00
C:0x0B08
             E50B
                       MOV
                                  A,0x0B
C:0x0B0A
             6059
                       JZ
                                 C:0B65
                                  /= 10;
                                                                             // Shift
C:0x0B0C
             7C00
                       MOV
                                  R4.#0x00
C:0x0B0E
             7 D O A
                       MOV
                                 R5,#0x0A
R7,0x82
C:0x0B10
             AF82
                       MOV
C:0x0B12
             AE83
                       MOV
                                  R6,0x83
                       LCALL.
                                  C?UIDIV(C:OA3E)
C:0x0B14
             120 A 3 E
C:0x0B17
             8E83
                       MOV
                                  0x83,R6
C:0x0B19
             8F82
                       MOV
                                 0x82.R7
   305:
                           i ---
                                                                            // Move through UART array
C:0x0B1B
                       test
                       DEC
             150B
                                 0 x 0 B
306:
C:0x0B1D
                                = uart_in[i] - 48;
A,#uart_in(0x32)
                                                           // ascii to num
             7432
C:0x0B1F
             250B
                       ADD
                                  A,0x0B
C:0x0B21
             F8
                       MOV
                                  RO.A
C:0x0B22
             E6
                       MOV
                                  A, @RO
             24D0
                                  A,#0xD0
C:0x0B23
                       ADD
C:0x0B25
             F50A
                       MOV
                                  OxOA,A
                          if(test > 10){
                                                             // check is 0 to 9, unsigned
  307:
C:0x0B27
             D3
                       SETB
             940A
                                  A,#0x0A
                       SUBB
C:0x0B28
C:0x0B2A
             4002
                       JC
                                  C:0B2E
                                    bad = true;
  308:
C:0x0B2C
             D201
                       SETB
                                  0x20.1
   309:
   310 .
                           num += test*scale:
  shift in to position
             AFOA
7E00
                                  R7,0x0A
C:0x0B2E
                       MOV
C:0x0B30
                       MOV
                                  R6,#0x00
C:0x0B32
             AD82
                       MOV
                                 R5,0x82
R4,0x83
C:0x0B34
             AC83
C:0x0B36
             120 A 2 C
                       LCALL.
                                  C? IMIII. (C:0A2C)
C:0x0B39
C:0x0B3A
             2 B
                       ADD
                                  A,R3
C:0x0B3B
                                  R3,A
C:0x0B3C
             EE
                       MOV
                                  A,R6
C:0x0B3D
                       ADDC
                                  A,R2
C:0x0B3E
             FA
                       MOV
                                  R2,A
   311:
                                 ansmit){
                                                                     // Put if statement at back of loop to save on jumps
                                 0x20.0,C:0B08
num = out / scale;
C:0x0B3F
                       JNB
             3000C6
// 10 powers
C:0x0B42
             AE08
                       MOV
                                  R6.0x08
C:0x0B44
             AF09
                       MOV
                                  R7,0x09
C:0x0B46
                       LCALL
MOV
              120 A3E
                                  C?UIDIV(C:OA3E)
C:0x0B49
             AA06
                                  R2.0x06
C:0x0B4B
             AB07
                       MOV
                                  R3,0x07
                                    uartLoadOut(num + 48);
                                                                       // Number to ascii
  313:
C:0x0B4D
                                  A.R7
             EF
                       MOV
                                 A,#adc3(0x30)
R7,A
uartLoadOut(C:0B9C)
             2430
C:0x0B4E
                       ADD
C:0x0B50
                       MOV
             120B9C
C:0x0B51
                       LCALL
314:
C:0x0B54
                                  out %= scale;
R6,0x08
                                                                          // Remainder for next time
                       MOV
             AE08
                                  R7,0x09
R5,0x82
C:0x0B56
             AF09
                       MOV
             AD82
C:0x0B58
                       MOV
C:0x0B5A
             AC83
                       MOV
                                  R4.0x83
C:0x0B5C
             120 A3E
                       LCALL
                                  C?UIDIV(C:OA3E)
C:0x0B5F
             8008
                       MOV
                                 0x08,R4
0x09,R5
C:0x0B61
             8D09
                       MOV
   315:
   316:
                 }
             80A3
C:0x0B63
                       SJMP
                                  C:0B08
             uartLoadOut(
                                 \n');
  317:
C:0x0B65
                                  R7 #0×04
             120B9C
                       LCALL
                                  uartLoadOut(C:0B9C)
  318:
                 uartLoadOut(
                                 \r');
R7,#0x0D
C:0x0B6A
                                  uartLoadOut(C:0B9C)
             120B9C
                       LCALL
C:0x0B6C
319:
C:0x0B6F
                  if(bad){
             300104
                       num
MOV
Mo
                                  0x20.1,C:0B76
   320:
                                  DEFAULT_OUT_MV;
                                                                       // Not all valid numbers so set output as default
C:0x0B72
             7 A 1 3
                                 R2,#0x13
R3,#TCON(0x88)
C:0x0B74
                       MOV
              }
   321:
   322:
                  return num;
             AE02
                                  R6,0x02
C:0x0B76
                       MOV
C:0x0B78
             AF03
                       MOV
                                  R7,0x03
```

323: }

```
324:
C:0x0B7A
               22
    325: U16 readAdc(U8 sel){
                                                                              // Read the available ADCs
               U8 i;
    326:
                    U8 i;
ADCOMX = sel;
MOV ADCOMX(0xBB),R7
    327.
C:0x0B7B
               8FBB
328:
C:0x0B7D
               for(i=0;i<2;i++){
E4 CLR A
                              V R7,A
ADCOCNO |= ADCOCNO_ADBUSY__SET;
C:0x0B7E
               FF
                           MOV
   329:
                           ORL ADCOCNO (OxE8),#0x10
while (ADCOCNO & ADCOCNO_ADBUSY_SET);
MOV A,ADCOCNO (0xE8)
JB 0xE0.4,C:0B82
C:0x0B7F
               43E810
                                                                                      // Wait for sample to complete
330:
C:0x0B82
               E5E8
C:0x0B84
               20E4FB
                          JB
               2rB
}
OF
   331:
               BF02F4 CJNE R7,#0x02,C:0B7F
return (((U32)ADC0)*SCALE_MUL) >> 10;
AFBD MOV R7,ADC0(0xBD)
C:0x0B87
               BF02F4
C:0x0B88
                                                                               // Scale to mV
C : 0 x 0 B 8 B
                                       R7,ADCO(0xBD)
R6,0xBE
                AEBE
                           MOV
                                       R4,#0x17
R5,#0xB4
C:0x0B8F
               7C17
                           MOV
C:0x0B91
                7DB4
                120 ACC
                           LCALL
                                       C?LIMUL(C:OACC)
C:0x0B93
               780 A
120 A 93
                           MOV
LCALL
                                       RO, #0x0A
C?ULSHR(C:0A93)
C:0x0B96
C:0x0B98
    333: }
    334:
    336: // Interrupt Routines
    338:
C:0x0B9B 22 RET
290: void uartLoadOut(U8 tx){
// Handle buffering out Tx UART
291: uart_out[head] = tx;
C:0x0B9C AE23 MOV R6,head
                                                                                   // Buffer outgoing
                                       R6, head (0x23)
                           MOV
                                       A, #uart_out(0x39)
               7439
C:0x0B9E
               2E
F8
                           ADD
MOV
                                       A,R6
RO,A
C:0x0BA0
C:0x0BA1
C:0x0BA2
               A607
                           {\tt MOV}
                                       @R0,0x07
               A607 MOV QRO,0x07
head++;
0523 INC head(0x23
head %= UART_SIZE_OUT;
532307 ANL head(0x23
   292:
C:0x0BA4
                                       head(0x23)
   293:
                                                                    // Wrap around
                                       head(0x23),#0x07
C:0x0BA6
   294: }
C:0x0BA9
               22
                           RET
                787F
C:0xOBAA
                           MOV
                                       RO,#0x7F
               E4
F6
                                       A
@RO,A
C:0xOBAC
                           CI.R.
C:0xOBAD
                           MOV
C:0x0BAE
                D8FD
                           DJNZ
                                       RO,C:OBAD
0x81,#0x40
C:0x0BB0
                758140
                           MOV
C:0x0BB3     020800     LJMP     main(C:0800)
     339: INTERRUPT (TIMER1_ISR, TIMER1_IRQn){}
C:0x0BB6     32     RETI
                                                                           // Needed for UART timing
```

### Listing 5: LIMUL

```
C?LIMUL:
C:OxOACC
              EC
                        MOV
                                   A R4
                                   0xF0,R6
C:0xOACD
              8EF0
                         MOV
              A4
CC
C:OxOACE
                         MIII.
                                   AB
C:0x0AD0
                                   A , R4
              C5F0
CC
                                   A,0xF0
A,R4
C:0x0AD1
                         XCH
C:0x0AD3
C:0x0AD4
              CD
                         XCH
                                   A.R5
C:0x0AD5
                                   RO,A
C:0x0AD6
              EF
                         MOV
C:0x0AD7
                                   A.R6
              CE
C:0x0AD8
                         XCH
C:0x0AD9
              C5F0
C:0xOADB
              2 D
                         ADD
                                   A.R5
C:0xOADC
              FD
C:0xOADD
              E4
                        CLR
C:0xOADE
                         ADDC
                                   A,R4
C:0xOADF
              FC
                        MOV
                                   R4.A
C:0x0AE0
              E8
                         MOV
                                   A,RO
C:0x0AE1
              A4
                         MUL
                                   AB
C:0x0AE2
C:0x0AE3
              2E
C8
                         ADD
                                   A,R6
                         XCH
                                   A,RO
C:0x0AE4
              C5F0
                         XCH
                                   A,0xF0
C:0x0AE6
              3D
                         ADDC
                                   A.R5
C:0x0AE7
              FD
                         MUA
                                   R5,A
C:0x0AE8
              E4
                         CLR
                                   A
A,R4
              3C
FC
C:0x0AE9
                         ADDC
C:0x0AEA
                         MOV
                                   R4,A
              EF
A4
                                   A,R7
AB
C:0x0AEB
                         MOV
C:0x0AEC
C:0x0AED
C:0x0AEE
              FF
E5F0
                         MOV
                                   R7 A
C:0x0AF0
              28
                         ADD
                                   A . R.O
C:0x0AF1
              FE
                         MOV
                                   R6,A
C:0x0AF2
              E4
                         CI.R
                                   Δ
                                   A,R5
C:0x0AF3
              ЗD
                         ADDC
C:0x0AF4
              FD
                         MOV
                                   R5,A
C:0x0AF5
                                   A,R4
C:0x0AF6
              3 C
                         ADDC
C:0x0AF7
```

## Listing 6: ULSHR

C?ULSHR:			
E8	MOV	A, RO	
600F	JZ	C:0AA5	
EC	MOV	A, R4	
C3	CLR	C	
13	RRC	A	
FC	MOV	R4,A	
ED	MOV	A,R5	
13	RRC	A	
FD	MOV	R5,A	
EE	MOV	A, R6	
13	RRC	A	
FE	MOV	R6,A	
EF	MOV	A,R7	
13	RRC	A	
FF	MOV	R7,A	
D8F1	DJNZ	RO,C:0A96	
22	RET		
	E8 600F EC C3 13 FC ED 13 FD EE 13 FE EF 13 FF	E8 MOV 600F JZ EC MOV C3 CLR 13 RRC FC MOV ED MOV 13 RRC FD MOV EE MOV 13 RRC FD MOV 13 RRC FF MOV 13 RRC FF MOV 13 RRC FF MOV 15 RRC 15 RRC FF MOV 15 RRC 1	E8 MOV A,RO 600F JZ C:0AA5 EC MOV A,R4 C3 CLR C 13 RRC A FC MOV R4,A ED MOV A,R5 13 RRC A FD MOV R5,A EE MOV A,R6 13 RRC A FF MOV A,R6 13 RRC A FF MOV R6,A FF MOV R6,A FF MOV R7,A FF MOV R7,A D8F1 DJNZ R0,C:0A96

## Listing 7: IMUL

	C.	?IMUL:	
C:0x0A2C	EF	MOV	A,R7
C:0x0A2D	8DF0	MOV	0xF0,R5
C:0x0A2F	A4	MUL	AB
C:0x0A30	A8F0	MOV	RO,0xFO
C:0x0A32	CF	XCH	A,R7
C:0x0A33	8CF0	MOV	0xF0,R4
C:0x0A35	A4	MUL	AB
C:0x0A36	28	ADD	A,RO
C:0x0A37	CE	XCH	A,R6
C:0x0A38	8DF0	MOV	0xF0,R5
C:0x0A3A	A4	MUL	AB
C:0x0A3B	2 E	ADD	A,R6
C:0x0A3C	FE	MOV	R6,A
C:0x0A3D	22	RET	

# Listing 8: UDIV

	C?UI	DIV:	
C:0x0A3E	BCOOOB	CJNE	R4,#0x00,C:0A4C
C:0x0A41	BE0029	CJNE	R6,#0x00,C:0A6D
C:0x0A44	EF	MOV	A,R7
C:0x0A45	8DF0	MOV	0xF0,R5
C:0x0A47	84	DIV	AB
C:0x0A48	FF	MOV	R7,A
C:0x0A49	ADFO	MOV	R5,0xF0
C:0x0A4B	22	RET	•
C:0x0A4C	E4	CLR	A
C:0x0A4D	CC	XCH	A, R4
C:0x0A4E	F8	MOV	RO, A
C:0x0A4F	75F008	MOV	0xF0,#0x08
C:0x0A52	EF	MOV	A,R7
C:0x0A53	2F	ADD	A, R7
C:0x0A54	FF	MOV	R7,A
C:0x0A55	EE	MOV	A,R6
C:0x0A56	33	RLC	A
C:0x0A57	FE	MOV	R6,A
C:0x0A58	EC	MOV	A, R4
C:0x0A59	33	RLC	A
C:0x0A5A	FC	MOV	R4,A
C:0x0A5B	EE	MOV	A , R6
C:0x0A5C	9 D	SUBB	A, R5
C:0x0A5D	EC	MOV	A, R4
C:0x0A5E	98	SUBB	A,RO
C:0x0A5F	4005	JC	C:0A66
C:0x0A61	FC	MOV	R4,A
C:0x0A62	EE	MOV	A,R6
C:0x0A63	9 D	SUBB	A, R5
C:0x0A64	FE	MOV	R6,A
C:0x0A65	OF	INC	R7
C:0x0A66	D5F0E9	DJNZ	0xF0,C:0A52
C:0x0A69	E4	CLR	A
C:0x0A6A	CE	XCH	A , R6
C:0x0A6B	FD	MOV	R5,A
C:0x0A6C	22	RET	,
C:0x0A6D	ED	MOV	A,R5
C:0x0A6E	F8	MOV	RO, A
C:0x0A6F	F5F0	MOV	0xF0,A
C:0x0A71	EE	MOV	A,R6
C:0x0A72	84	DIV	AB
C:0x0A72	20D21C	JB	0xD0.2,C:0A92
C:0x0A76	FE	MOV	R6, A
C:0x0A77	ADFO	MOV	R5,0xF0
C:0x0A77	75F008	MOV	0xF0,#0x08
C:0x0A79	75FUU6 EF	MOV	A,R7
C:0x0A7C C:0x0A7D	2F		A,R7
C:OXOA7D C:OXOA7E	FF	ADD MOV	-
			R7,A
C:0x0A7F	ED	MOV	A, R5

C:0x0A80	33	RLC	A
C:0x0A81	FD	MOV	R5,A
C:0x0A82	4007	JC	C:0A8B
C:0x0A84	98	SUBB	A,RO
C:0x0A85	5006	JNC	C:0A8D
C:0x0A87	D5F0F2	DJNZ	0xF0,C:0A7C
C:0x0A8A	22	RET	
C:0x0A8B	C3	CLR	C
C:0x0A8C	98	SUBB	A,RO
C:0x0A8D	FD	MOV	R5,A
C:0x0A8E	OF	INC	R7
C:0x0A8F	D5F0EA	DJNZ	0xF0,C:0A7C
C:0x0A92	22	RET	

# Listing 9: CCASE

C?CCASE:			
C:0x0AA6	D083	POP	0x83
C:0x0AA8	D082	POP	0x82
C:OxOAAA	F8	MOV	RO, A
C:0xOAAB	E4	CLR	A
C:0xOAAC	93	MOVC	A, @A+DPTR
C:0xOAAD	7012	JNZ	C:0AC1
C:0xOAAF	7401	MOV	A,#0x01
C:0x0AB1	93	MOVC	A, QA+DPTR
C:0x0AB2	700D	JNZ	C:0AC1
C:0x0AB4	A3	INC	DPTR
C:0x0AB5	A3	INC	DPTR
C:0x0AB6	93	MOVC	A, @A+DPTR
C:0x0AB7	F8	MOV	RO, A
C:0x0AB8	7401	MOV	A,#0x01
C:0x0ABA	93	MOVC	A, @A+DPTR
C:0x0ABB	F582	MOV	0x82,A
C:0xOABD	8883	MOV	0x83,R0
C:0x0ABF	E4	CLR	A
C:0x0AC0	73	JMP	@A+DPTR
C:0x0AC1	7402	MOV	A,#0x02
C:0x0AC3	93	MOVC	A, @A+DPTR
C:0x0AC4	68	XRL	A,RO
C:0x0AC5	60EF	JZ	C:0AB6
C:0x0AC7	A3	INC	DPTR
C:0x0AC8	A3	INC	DPTR
C:0x0AC9	A3	INC	DPTR
C:0xOACA	80DF	SJMP	C:OAAB