

タイトル(title):

C 言語の疑似スレッド

サブタイトル(subtitle):

C 言語の偽物のスレッド

The thread at the imitation of the C language.

似ているが独創的な別物

The resembling but original singleton.

C 言語によるスレッドという概念の模倣

Copying a concept, the thread, by the C language.

スレッドとは、コンピュータープログラミング上の、並列処理の機能です。

スレッドをサポートしているプログラミング言語と、スレッドをサポートしていないプログラミング言語があります。

高度な機能のスレッドをわざとサポートしない言語があるのは、パソコン以外の環境で実行するために、低レベルマイコン対応のプログラミング言語でいるから(例えば C 言語)です。

代わりにマイコンにはインターバルタイマーがあります。

ただし、C 言語からインターバルタイマーを使用するには、そのマイコンのマニュアルだけではなく、そのマイコンの C 言語のマニュアルも必要です。

H 社さんの社員さんは、H 社さんの製品のマイコンのインターバルタイマーを呼び出せるでしょう。

H 社さんの社員さん以外の方は、情報を揃えるのが困難なので、H 社さんの製品のマイコンのインターバルタイマーを呼び出すのは困難でしょう。

M 社さんの社員さんは、M 社さんの製品のマイコンのインターバルタイマーを呼び出せるでしょう。

M 社さんの社員さん以外の方は、情報を揃えるのが困難なので、M 社さんの製品のマイコンのインターバルタイマーを呼び出すのは困難でしょう。

したがって、大手の社員さんは、その大手の会社の製品のマイコンのインターバルタイマーを呼び出せるでしょう。

一般の方は、情報を揃えるのが困難なので、マイコンのインターバルタイマーを呼び出すのは困難でしょう。

今回作成しました、並行処理タイプのスレッド(疑似スレッドと命名)は、インターバルタイマーの使い方が習得できない一般の方には、朗報かも知れません。

/*

H8042 USBサンプルプログラム

(C)2002 C.I.M

このサンプルは、H8の初期化と、USBの簡単な送受信の方法、および、
LCD、SCI、スイッチ、LEDのアクセスを行っています。

SCIはsci.c、LCDはlcd.cを参照してください。

USBの送受信は、usb.c内でリングバッファにデータの送受信を行っています。

ユーザーは、リングバッファにアクセスすることで簡単にデータの送受信ができます。

リングバッファのサイズは、現在送受信用とも256byteです。これを超えた分は捨てられます。

*/

```
/*  
*****  
#define USE_THREAD  
#define USE_H8_3052F  
*****  
#include <stdio.h>  
*****  
#ifdef USE_H8_3052F  
#define SLEEP_PER_SEC 16000.0  
*****  
#include "h83048.h"  
*****  
#else  
#define SLEEP_PER_SEC 10000000.0  
#include <conio.h> /* kbhit(), getche() */
```

```
#endif

#include <stdlib.h> /* malloc(), free(), rand() */

#define OK 1

#define NG 0

#ifdef USE_H8_3052F

/*****

=====

=====

外部参照

=====

=====*/

/* start内に定義 */

extern void EnableInterrupt(void);

extern void DisableInterrupt(void);

/* lcd.c */

extern void InitLCD(void);

extern void PrintLCD(char *fmt,...);

extern void PutLCD(char c);

/* usb.c */

extern void InitUSB(void);

extern void DispUSBPort(void);

/* バッファ処理 */

extern int get_inbufflen(void);

extern int write_buff(char *p,int size);

extern int read_buff(char *p,int size);
```

```
/* sci.c */

extern void InitSCI(void);

extern void PrintSCI(char *fmt, ...);

extern int ScanSCI(void);

extern char GetSCI(void);

/* main.c内定義 */

void H8init(void);

int SetLED(int no,int onoff);

int GetSW(int no);

/*****/

#endif

/* 表示を表す列挙体宣言 */

enum PrintF

{

Panel,

InputCommand,

Monitor

};

/* 画面クリア */

void Clear(void);

/* 表示を表す関数のプロトタイプ宣言 */

void PrintF(int mode, char *str);

/* 時間に使用する定数の宣言 */
```

```
#define WOVICLOCKSIZE 1000000.0
```

```
/* 時間を表す外部変数宣言 */
```

```
double woviClock;
```

```
/* 擬似スレッド定義 */
```

```
#ifdef USE_THREAD
```

```
/* 擬似スレッドに使用する定数の宣言 */
```

```
#define NULLTHREADID -1
```

```
#define INITCLOCKNO 1000001
```

```
#define STOPCLOCKNO 1000002
```

```
/* 構造体宣言 */
```

```
typedef struct tag_Thread
```

```
{
```

```
    /* 擬似スレッドID */
```

```
    int ID;
```

```
    /* 指定開始時 */
```

```
    double preClock;
```

```
    /* woviClockがpreClockからsetClock秒増えたらRunを呼ぶ */
```

```
    double setClock;
```

```
    /* Runが呼ばれた回数を調べるために使用(countUpNextRunが呼ばれた回数) */
```

```
    long count;
```

```
    /* List機能 */
```

```
    struct tag_Thread *previous;
```

```
    struct tag_Thread *next;
```

```
}Thread;
```

```
/* wovi用疑似インスタンス宣言 */  
Thread woviThreadFirst;  
Thread woviThreadLast;  
  
/* 疑似メソッドとwovi用関数のプロトタイプ宣言 */  
/* 宣言の順番は以下の通り */  
#endif  
double getClock(void);  
#ifdef USE_THREAD  
void nextRun(Thread *This, unsigned int ms);  
void countUpNextRun(Thread *This, unsigned int ms);  
void Run(Thread *This);  
void Init(Thread *This);  
void Destroy(Thread *This);  
Thread *new_Thread(unsigned short int id);  
void delete_(Thread *This);  
void Start(Thread *This);  
void Stop(Thread *This);  
int Thread_checkAllDelete(void);  
Thread *Thread_getThread(unsigned short int id);  
Thread *Thread_Start(unsigned short int id);  
void Thread_Toggle(unsigned short int id);  
void woviRun(void);  
void wovilnit(void);  
/* タイマ関数 */  
void wovi(double threadPerSec);  
/* タイマ初期化関数 */  
void initWOVI(void);
```

```
#endif
```

```
/* ミリ秒待ち関数 */
```

```
void SleepMSec(double sleepPerSec, unsigned int ms);
```

```
/* 画面クリア */
```

```
void Clear(void)
```

```
{
```

```
#ifdef USE_H8_3052F
```

```
static char buff[64];
```

```
sprintf(buff,"%f");
```

```
PrintLCD(buff);
```

```
#else
```

```
system("cls");
```

```
#endif
```

```
}
```

```
/* 表示のための関数 */
```

```
void PrintF(int mode, char *str)
```

```
{
```

```
#ifdef USE_H8_3052F
```

```
static char buff[64];
```

```
#endif
```

```
switch(mode)
```

```
{
```

```
case Panel:
```

```
#ifdef USE_H8_3052F
```

```
if(strcmp(str, "%n¥0") == 0)
```



```
{
    sprintf(str, "%s", "¥n¥f");
}
sprintf(buff,"%s", str);
PrintSCI("%s",buff);
PrintLCD(str);
#else
    printf("%s", str);
#endif
break;
case InputCommand:
#ifdef USE_H8_3052F
    printf("%s", str);
#endif
break;
case Monitor:
#ifdef USE_H8_3052F
    sprintf(buff,"%s", str);
    PrintSCI("%s",buff);
    write_buff(buff,strlen(buff)+1);
#else
    printf("%s", str);
#endif
break;
default:
break;
}

return;
```

```
}
```

```
/* 時刻取得 */
```

```
double getClock(void)
```

```
{
```

```
    return woviClock;
```

```
}
```

```
#ifdef USE_THREAD
```

```
/* スレッドのvoid Sleep(int ms)の代用 */
```

```
void nextRun(Thread *This, unsigned int ms)
```

```
{
```

```
    This->preClock = woviClock;
```

```
    This->setClock = (((double) ms) / 1000);
```

```
    return;
```

```
}
```

```
/* スレッドのvoid Sleep(int ms)の代用 */
```

```
void countUpNextRun(Thread *This, unsigned int ms)
```

```
{
```

```
    nextRun(This, ms);
```

```
    This->count++;
```

```
}
```

```
#ifdef USE_H8_3052F
```

```
Thread th101;
```

```
Thread th102;
```

```
Thread th111;
```

```
Thread th112;
```

```
Thread th113;
Thread th114;
Thread th120;
Thread th121;
Thread th122;
Thread th123;
Thread th124;
#endif

/* スレッドのコンストラクタの代用 */
Thread *new_Thread(unsigned short int id)
{
    Thread *List;
    Thread *new_List;
    List = &woviThreadFirst;
    while(List->next->next != NULL)
    {
        List = List->next;
    }
#ifdef USE_H8_3052F
    if(id == 1)
    {
        new_List = &th101;
    }
    else if(id == 2)
    {
        new_List = &th102;
    }
    else if(id == 11)
```

```
{  
    new_List = &th111;  
}  
else if(id == 12)  
{  
    new_List = &th112;  
}  
else if(id == 13)  
{  
    new_List = &th113;  
}  
else if(id == 14)  
{  
    new_List = &th114;  
}  
else if(id == 20)  
{  
    new_List = &th120;  
}  
else if(id == 21)  
{  
    new_List = &th121;  
}  
else if(id == 22)  
{  
    new_List = &th122;  
}  
else if(id == 23)  
{
```

```

        new_List = &th123;
    }
    else if(id == 24)
    {
        new_List = &th124;
    }
#else
    new_List = (Thread *)malloc(sizeof(Thread));
#endif
    if(new_List == NULL)
    {
        Printf(Panel, "¥n");
        Printf(Panel, "malloc failed");
        return NULL;
    }
    new_List->previous = List;
    new_List->next = List->next;
    new_List->next->previous = new_List;
    List->next = new_List;
    new_List->preClock = INITCLOCKNO;
    new_List->setClock = 0;
    new_List->ID = id;
    new_List->count = 0;
    /* スレッドのvoid init(void)の代用 */
    Init(new_List);
    return new_List;
}

```

```

/* スレッドのデストラクタの代用 */

```

```
void delete_(Thread *This)
{
    Destroy(This);
    This->previous->next = This->next;
    This->next->previous = This->previous;
#ifdef USE_H8_3052F
    free(This);
#endif
    return;
}
```

/* スレッドのvoid start(void)の代用 */

```
void Start(Thread *This)
```

```
{
    woviClock = getClock();
    This->preClock = woviClock;
    return;
}
```

/* スレッドのvoid stop(void)の代用 */

```
void Stop(Thread *This)
```

```
{
    This->preClock = STOPCLOCKNO;
    return;
}
```

```
int Thread_checkAllDelete(void)
```

```
{
    if(woviThreadFirst.next->next == NULL)
```

```
{
    return OK;
}
else
{
    return NG;
}
}
```

Thread *Thread_getThread(unsigned short int id)

```
{
    Thread *th;

    if(woviThreadFirst.next->next == NULL)
    {
        return NULL;
    }
    else
    {
        th = woviThreadFirst.next;
        do
        {
            if(th->ID == id)
            {
                return th;
            }
            else
            {
```

```
        th = th->next;
    }
    }while(th->next != NULL);
}
return NULL;
}
```

```
Thread *Thread_Start(unsigned short int id)
```

```
{
    Thread *th;

    th = Thread_getThread(id);
    if(th == NULL)
    {
        th = new_Thread(id);
        Start(th);
    }
    else if(th->preClock == STOPCLOCKNO)
    {
        Start(th);
    }
    return th;
}
```

```
void Thread_Toggle(unsigned short int id)
```

```
{
    Thread *th;

    th = Thread_getThread(id);
```



```

if(th == NULL)
{
    th = new_Thread(id);
    Start(th);
}
else if(th->preClock == STOPCLOCKNO)
{
    Start(th);
}
else
{
    delete_(th);
}
return;
}

```

/ Runを呼ぶタイミング */*

```

void woviRun(void)
{
    double woviClockCompare;
    Thread *List;
    Thread *next_List;
    List = &woviThreadFirst;
    List = List->next;
    while(List->next != NULL)
    {
        next_List = List->next;
        if((List->preClock != INITCLOCKNO) && (List->preClock != STOPCLOCKNO))
        {

```

```

woviClockCompare = List->preClock + List->setClock;
if(woviClock < List->preClock)
{
    woviClockCompare -= WOVICLOCKSIZE;
}
if(woviClock >= woviClockCompare)
{
    List->preClock = woviClock;
    /* スレッドのvoid run(void)の代用 */
    Run(List);
}
}
List = next_List;
}
return;
}

```

/* 指定開始時OFF */

void wovinit(void)

```

{
    woviThreadFirst.previous = NULL;
    woviThreadFirst.next = &woviThreadLast;
    woviThreadLast.previous = &woviThreadFirst;
    woviThreadLast.next = NULL;
    return;
}

```

/* タイマ関数 */

void wovi(double threadPerSec)

```
{  
  
    woviClock += 1.0 / threadPerSec;  
    if(woviClock >= WOVICLOCKSIZE)  
    {  
        Printf(Pannel, "%n");  
        Printf(Pannel, "OVERWOVI");  
        woviClock -= WOVICLOCKSIZE;  
    }  
    woviRun(); /* スレッドのためのRunを呼ぶタイミング */  
    return;  
}
```

```
/* タイマ初期化関数 */
```

```
void initWOVI(void)
```

```
{  
    woviClock = 0.0;  
    wovilnit(); /* スレッドのための指定開始時OFF */  
    return;  
}
```

```
#endif
```

```
/* ミリ秒待ち関数 */
```

```
void SleepMSec(double sleepPerSec, unsigned int ms)
```

```
{  
    double cnt;  
    double set;  
    cnt = 0.0;  
    set = ((double) ms) / 1000;
```

```

while(cnt < set)
{
    cnt += 1.0 / sleepPerSec;
}
return;
}

#ifdef USE_H8_3052F

/*****/

/*=====
=====

                                main
-----

H8の初期化などもまだなので、ここで行います。
この関数の終了はしないでください。

=====
=====*/

/*
このサンプルは、USBから送られてきたデータを読み込んで、そのままHOSTへ返しています。
USBから送られてきたデータはLCDと、シリアルに出力しています。
また、シリアルから来たデータをLCD,UCBへ送信しています。
スイッチが押されると、LEDが一瞬点灯します。

*/

/*****/

#endif

#ifdef USE_THREAD

typedef struct tag_Count
{
    int cnt[2];

```

```
}Count;
```

```
Count Cnt;
```

```
void Thread0(void)
```

```
{
```

```
    int i_cnt;
```

```
    int i;
```

```
    /* 擬似スレッドの擬似インスタンス宣言 */
```

```
    Thread *th1;
```

```
    Thread *th2;
```

```
    th1 = new_Thread(1);
```

```
    th2 = new_Thread(2);
```

```
    /* 擬似スレッド開始 */
```

```
    Printf(Panel, "¥n");
```

```
    Printf(Panel, "Thread 12 Start ");
```

```
    /* 2秒待機 */
```

```
    SleepMSec(SLEEP_PER_SEC, 2000);
```

```
    Clear();
```

```
    Start(th1);
```

```
    Start(th2);
```

```
    for(;;)
```

```
    {
```

```
    #ifdef USE_H8_3052F
```

```
        wovi(4000.0);
```

```
    #else
```

```
        wovi(5000000.0);
```

```
    #endif
```

```
        if(Cnt.cnt[0] >= 13)
```

```
        {
```

```

        i_cnt = 1;
        break;
    }
    else if(Cnt.cnt[1] >= 13)
    {
        i_cnt = 2;
        break;
    }
}
delete_(th1);
delete_(th2);
Clear();
if(i_cnt == 1)
{
    Printf(Panel, "GOAL!<1>WON  ");
}
else if(i_cnt == 2)
{
    Printf(Panel, "GOAL!<2>WON  ");
}
return;
}

void Thread1(void)
{
    unsigned short int i;
    /* 疑似スレッドの疑似インスタンス宣言 */
    Thread *th[4];
    Printf(Panel, "CountUp  ");

```

```

/* 2秒待機 */
SleepMSec(SLEEP_PER_SEC, 2000);
Clear();
/* 疑似スレッドの疑似インスタンス初期化 */
for(i = 0; i < 4; i++)
{
    th[i] = new_Thread(i + 11);
}
/* 2秒待機 */
SleepMSec(SLEEP_PER_SEC, 2000);
Clear();
/* 疑似スレッド開始 */
PrintF(PANEL, "Start    ");
for(i = 0; i < 4; i++)
{
    Start(th[i]);
}
for(;;)
{
    /* タイマー呼び出し */
#ifdef USE_H8_3052F
        wovi(4000.0);
#else
        wovi(5000000.0);
#endif
    if(Thread_checkAllDelete() == OK)
    {
        break;
    }
}

```

```

    }
}
return;
}

void Thread2(void)
{
    Thread *th20;
    Thread *th21;
    Printf(Pannel, "Toggle ");
    /* 2秒待機 */
    SleepMSec(SLEEP_PER_SEC, 2000);

    th21 = new_Thread(21);
    Start(th21);
    th20 = new_Thread(20);
    Start(th20);

    for(;;)
    {
        /* タイマー呼び出し */
#ifdef USE_H8_3052F
        wovi(4000.0);
#else
        wovi(5000000.0);
#endif
        if(woviThreadFirst.next->next->next == NULL)
        {
            delete_(th20);

```



```

        break;
    }
}
return;
}

#endif

/*****/

main()
{
/*****/

#ifdef USE_H8_3052F
/*****/

    char sw[4];

/*****/

#endif

    int i;

    int j;

#ifdef USE_H8_3052F
/*****/

    int f;

    int cnt;

    static char buff[64];

    for(i=0;i<0x7fff;i++) {}

    H8init(); /* H8 レジスタ初期化 */
    InitSCI(); /* SCI1初期化(serial) */
    InitLCD(); /* LCD初期化 */

    /* LED OFF */

```

```

SetLED(0,0);

SetLED(1,0);

SetLED(2,0);

SetLED(3,0);

/*-----*/
/* USB初期化 */
InitUSB();

INTC.ISCR &= (-1^0x20);          /* IRQ_5 センスコントロール Active Low */
INTC.IER |= 0x20;              /* IRQ5 Enable */
/*-----*/

EnableInterrupt();             /* 割り込み許可 ccr */

f = 0;

PrintSCI("CPU MODE %02X¥n",MDCR);    /* MODE 6 */
PrintLCD("¥fReady!3052");           /* ¥fはLCDクリアに利用 */

sw[0] = sw[1] = sw[2] = sw[3] = 0;  /* スイッチワーク初期化 */

/*****/

#else

    Printf(Panel, "¥n");
    Printf(Panel, "Hello BCC");

#endif

#ifdef USE_THREAD

    /* タイマー初期化 */
    initWOVI();
    Thread0();

#endif

```

```
PrintF(Panel, "%n");
PrintF(Panel, "NEXT      ");
/* 2秒待機 */
SleepMSec(SLEEP_PER_SEC, 2000);
Clear();

#ifdef USE_THREAD
    Thread1();
#endif

/* 2秒待機 */
SleepMSec(SLEEP_PER_SEC, 2000);
Clear();
PrintF(Panel, "NEXT      ");
/* 2秒待機 */
SleepMSec(SLEEP_PER_SEC, 2000);
Clear();

#ifdef USE_THREAD
    Thread2();
#endif

/* 2秒待機 */
SleepMSec(SLEEP_PER_SEC, 2000);
Clear();
PrintF(Panel, "NEXT      ");
/* 2秒待機 */
SleepMSec(SLEEP_PER_SEC, 2000);
Clear();

#ifdef USE_H8_3052F
    /*******/
```

```

for(;;)
{
    /*-----*/
    /* ボタンが押された時にLCD,SCI,USBにメッセージを送る*/
    for(j=0;j<4;j++)
    {
        i = GetSW(j);
        if( ((sw[j]^1) & i) )          /* sw = off->onで条件成立 */
        {
            SetLED(j,1);              /* LED押した瞬間点灯 */
            sprintf(buff,"sw%u",j+1);
            PrintSCI("%s¥n",buff);
            write_buff(buff,strlen(buff)+1);    /* NULL(0x00)まで送信 */
            PrintLCD(buff);
        }
        else SetLED(j,0);
        sw[j] = i;
    }

    /*-----*/
    /* HOSTからのシリアル入力をLCD,USBに送る          */
    if( ScanSCI() )                    /* SCIに受信データあり? */
    {
        i = GetSCI();                  /* シリアル入力 */
        PutLCD(i);                     /* LCD出力 */
        buff[0] = i;
        write_buff(buff,1);            /* USB出力 */
    }
}

```

```

/*-----*/
/* USBからデータを受信した場合、そのままHOSTへリダイレクトする */
if( get_inbufflen() )          /* 受信データあり? */
{
    cnt = read_buff(buff,64);    /* データ取得(buffサイズは64byteまで) */
    PrintLCD("¥f");              /* LCDクリア */
    PrintLCD(buff);              /* LCDへ表示 */
    PrintSCI(buff);              /* シリアル出力 */
    write_buff(buff,cnt);        /* USBへリダイレクト */
}

```

```

/*-----*/
/* 動作確認のため点滅 */
SetLED(3,f);
f ^= 1;
for(i=0;i<10000;i++) {}        /* 適当にウエイト */
}

```

```

/*****/

```

```

#endif

```

```

return;

```

```

/*****/

```

```

}

```

```

#ifdef USE_THREAD

```

```

void Repaint(void)

```

```

{

```

```

    int i;

```

```

    Clear();

```

```

    for(i = 0; i < Cnt.cnt[0]; i++)
    {
        Printf(Panel, " ");
    }
    Printf(Panel, "<1>");
    Printf(Panel, "¥n");
    for(i = 0; i < Cnt.cnt[1]; i++)
    {
        Printf(Panel, " ");
    }
    Printf(Panel, "<2>");
    return;
}

/*
 * 疑似スレッドの疑似メソッド関数
 */

/* スレッドのpublic void run()の代用 */
void Run(Thread *This)
{
    Thread *th1;

    int i;

    int j;

    char key;

#ifdef USE_H8_3052F
    char sw[4];

    sw[0] = sw[1] = sw[2] = sw[3] = 0;        /* スイッチワーク初期化 */
#endif

    if(This->ID == 1)

```

```

{
    Repaint();
    Cnt.cnt[0]++;
    nextRun(This, (((rand() % 9) + 10) * 100));
}

else if(This->ID == 2)
{
    Repaint();
    Cnt.cnt[1]++;
    nextRun(This, (((rand() % 9) + 10) * 100));
}

else if(This->ID == 11)
{
    if(This->count == 1)
    {
        Clear();
        Printf(Panel, "<1>1st ");
        countUpNextRun(This, (1900 * 1));
    }

    else if(This->count == 2)
    {
        Clear();
        Printf(Panel, "<1>2nd");
        Printf(Panel, "<1>Stop ");
        Stop(This);
    }

    else if(This->count == 3)
    {

```

```

    Clear();
    Printf(Panel, "<1>3rd    ");
    countUpNextRun(This, (1500 * 1));
}
else if(This->count == 4)
{
    Clear();
    Printf(Panel, "<1>Stop    ");
    Stop(This);
}
}
else if(This->ID == 12)
{
    if(This->count == 1)
    {
        Clear();
        Printf(Panel, "<2>1st    ");
        countUpNextRun(This, (1700 * This->ID));
    }
    else if(This->count == 2)
    {
        Clear();
        Printf(Panel, "<2>2nd    ");
        countUpNextRun(This, (1700 * This->ID));
    }
    else if(This->count == 3)
    {
        Clear();
        Printf(Panel, "<2>3rd    ");

```



```

        countUpNextRun(This, (1700 * This->ID));
    }
    else
    {
        Clear();
        Printf(Panel, "<2>Stop");
        Stop(This);
        delete_(This);
    }
}
else if(This->ID == 13)
{
    if(This->count == 1)
    {
        Clear();
        Printf(Panel, "<3>1st ");
        countUpNextRun(This, (1700 * This->ID));
    }
    else if(This->count == 2)
    {
        Clear();
        Printf(Panel, "<3>2nd ");
        countUpNextRun(This, (1700 * This->ID));
    }
    else if(This->count == 3)
    {
        Clear();
        Printf(Panel, "<3>3rd ");
        countUpNextRun(This, (1700 * This->ID));
    }
}

```

```

}
else
{
    Clear();
    Printf(Panel, "<3>Stop");
    Stop(This);
    delete_(This);
}
}
else if(This->ID == 14)
{
    if(This->count == 1)
    {
        Clear();
        Printf(Panel, "<4>1st ");
        countUpNextRun(This, (1500 * 4));
    }
    else if(This->count == 2)
    {
        Clear();
        Printf(Panel, "<4>2nd");
        countUpNextRun(This, (1500 * 4));

        Printf(Panel, "<1>Start ");
        th11 = Thread_Start(11);
        countUpNextRun(th11, (1500 * 1));
    }
    else if(This->count == 3)
    {

```

```

    Clear();

    Printf(Panel, "<4>3rd    ");

    countUpNextRun(This, (1500 * 4));
}

else if(This->count == 4)
{
    th11 = Thread_getThread(11);

    if(th11 != NULL)
    {
        delete_(th11);
    }

    Printf(Panel, "<4>Sto");

    Stop(This);

    delete_(This);
}

}

else if(This->ID == 20)
{
    key = ' ';

    nextRun(This, 1);
#ifdef USE_H8_3052F
    /* ボタンが押された時にLCD,SCI,USBにメッセージを送る*/
    for(j=0;j<4;j++)
    {
        i = GetSW(j);

        if( ((sw[j]^1) & i) )          /* sw = off->onで条件成立 */
        {

```

```
        Thread_Toggle(j + 21);
        nextRun(This, 1000);
    }
}
#else
if(kbhit())
{
    key = getche();
}

if(key == '1')
{
    Thread_Toggle(21);
    nextRun(This, 1000);
}
else if(key == '2')
{
    Thread_Toggle(22);
    nextRun(This, 1000);
}
else if(key == '3')
{
    Thread_Toggle(23);
    nextRun(This, 1000);
}
else if(key == '4')
{
    Thread_Toggle(24);
    nextRun(This, 1000);
}
```

```
        }  
#endif  
}  
else if(This->ID == 21)  
{  
    Printf(Panel, "1");  
    countUpNextRun(This, 2000);  
}  
else if(This->ID == 22)  
{  
    Printf(Panel, "2");  
    countUpNextRun(This, 2000);  
}  
else if(This->ID == 23)  
{  
    Printf(Panel, "3");  
    countUpNextRun(This, 2000);  
}  
else if(This->ID == 24)  
{  
    Printf(Panel, "4");  
    countUpNextRun(This, 2000);  
}  
  
return;  
}
```

```
/* スレッドのコンストラクタのpublic void init()の代用 */
```

```
void Init(Thread *This)
```

```
{  
  
if(This->ID == 1)  
{  
    Cnt.cnt[0] = 0;  
    nextRun(This, (((rand() % 9) + 10) * 100));  
}  
  
else if(This->ID == 2)  
{  
    Cnt.cnt[1] = 0;  
    nextRun(This, (((rand() % 9) + 10) * 100));  
}  
  
else if(This->ID == 11)  
{  
    Printf(Panel, "<1>Init");  
    countUpNextRun(This, (1500 * 1));  
}  
  
else if(This->ID == 12)  
{  
    Printf(Panel, "<2>Init ");  
    countUpNextRun(This, (1500 * This->ID));  
}  
  
else if(This->ID == 13)  
{  
    Printf(Panel, "¥n");  
    Printf(Panel, "<3>Init");  
    countUpNextRun(This, (1500 * This->ID));  
}  
  
else if(This->ID == 14)  
{
```

```

    Printf(Panel, "<4>Init ");
    countUpNextRun(This, (1500 * This->ID));
}
else if(This->ID == 21)
{
    Clear();
    Printf(Panel, "<1>Init ");
    Printf(Panel, "¥n");
    countUpNextRun(This, 2000);
}
else if(This->ID == 22)
{
    Clear();
    Printf(Panel, "<2>Init ");
    Printf(Panel, "¥n");
    countUpNextRun(This, 2000);
}
else if(This->ID == 23)
{
    Clear();
    Printf(Panel, "<3>Init ");
    Printf(Panel, "¥n");
    countUpNextRun(This, 2000);
}
else if(This->ID == 24)
{
    Clear();
    Printf(Panel, "<4>Init ");

```

```
        Printf(Panel, "¥n");
        countUpNextRun(This, 2000);
    }
    return;
}
```

/* スレッドのデストラクタの代用 */

```
void Destroy(Thread *This)
```

```
{
    if(This->ID == 11)
    {
        Clear();
        Printf(Panel, "<1>Destroy");
    }
    else if(This->ID == 12)
    {
        Printf(Panel, "<2>Destro");
    }
    else if(This->ID == 13)
    {
        Printf(Panel, "<3>Destro");
    }
    else if(This->ID == 14)
    {
        Printf(Panel, "¥n");
        Printf(Panel, "<4>Destroy  ");
    }
    if(This->ID == 21)
    {
```



```

    Clear();
    Printf(Panel, "<1>Destroy  ");
    Printf(Panel, "¥n");
}
else if(This->ID == 22)
{
    Clear();
    Printf(Panel, "<2>Destroy  ");
    Printf(Panel, "¥n");
}
else if(This->ID == 23)
{
    Clear();
    Printf(Panel, "<3>Destroy  ");
    Printf(Panel, "¥n");
}
else if(This->ID == 24)
{
    Clear();
    Printf(Panel, "<4>Destroy  ");
    Printf(Panel, "¥n");
}
return;
}

#endif

#ifdef USE_H8_3052F

/*****/

/*=====

```

=====

LEDコントロール

```
int SetLED(int no,int onoff)
```

```
int    no        LEDナンバー 0~3
```

```
int    onoff     0=OFF,1=ON
```

```
戻り値          以前のLEDの状態 (0=OFF,else=ON)
```

LEDをコントロールします。

=====

====*/

```
int SetLED(int no,int onoff)
```

```
{
```

```
int    f;
```

```
f = PB.DR&(1<<no);
```

```
if( onoff == 0 )    PB.DR |= (1<<no);        /* off (1) */
```

```
else                PB.DR &= 0xff^(1<<no);    /* on (0) */
```

```
return( f );
```

```
}
```

/*=====

=====

SW状態取得

```
int GetSW(int no)
```

```
int    no        SWナンバー 0~3
```

戻り値

SWの状態(0=OFF,else=ON)

SWの状態を取得します。

=====

====*/

int GetSW(int no)

```
{  
    return( ((PA.DR&(1<<no))?0:1) );  
}
```

/*=====

=====

H8初期化

BUSモードや、ポートの初期化

P1	bit1	BUS	USB A0
P3		BUS	USB D7..0
P6	bit4	BUS	USB RD
P6	bit5	BUS	USB WR
P8	bit2	BUS	USB CS
P9	bit5	BUS	USB INT(IRQ5)
P9	bit3	BUS	RS232C
P9	bit1	BUS	RS232C
PA	bit0..3	IN	SW0..3
PB	bit0..3	OUT	LED0..3 LCD DB4..7
PB	bit4	OUT	LCD RS

PB bit7 OUT LCD E

=====

=====*/

void H8init()

{

BSC.ABWCR = 0x06; /* 8bit BUS MODE */

P1.DDR = 0xff; /* all OUT */

P2.DDR = 0xff; /* all OUT */

P2.PCR = 0x00; /* Pull up off */

P5.DDR = 0xff; /* all OUT */

P5.PCR = 0x00; /* Pull up off */

P6.DDR = 0xff; /* all OUT */

P9.DDR = 0xdf; /* Bit5 IN */

P8.DDR = 0xff; /* all OUT */

PA.DDR = 0xf0; /* bit7..4 out , bit3..0 in */

PB.DDR = 0xff; /* bit7..0 out */

}

/*******/

#endif

```
.CPU 300HA
.SECTION    V, CODE, LOCATE=H'000000
.IMPORT _main
.IMPORT _usb_int

.DATA.L    _start    ;リセットベクトル
.DATA.L    int_error
.DATA.L    int_error
.DATA.L    int_error

.DATA.L    int_error
.DATA.L    int_error
.DATA.L    int_error
.DATA.L    int_error

.DATA.L    int_error
.DATA.L    int_error
.DATA.L    int_error
.DATA.L    int_error
```

```
IRQ0: .DATA.L    int_error
IRQ1: .DATA.L    int_error
IRQ2: .DATA.L    int_error
IRQ3: .DATA.L    int_error
IRQ4: .DATA.L    int_error
IRQ5: .DATA.L    usb_interrupt
```

.SECTION P, CODE, ALIGN=2

_start:

mov.l #H'0FFFF10, er7

;初期化付きデータを使用する場合、RAMに転送する

mov.l #H'8000, er0 ; 転送元(8000)

mov.l #H'0FFEF10, er1 ; 転送先

mov.l #DATA_END, er2 ; 転送終了

init_loop:

cmp.l er1, er2

beq init_end

mov.b @er0+, r3l

mov.b r3l, @er1

inc.l #1, er1

bra init_loop

init_end:

jsr @_main

; 割り込み未使用

int_error:

rte

usb_interrupt:

push.l er0

push.l er1

push.l er2

push.l er3

push.l er4

```
push.l er5
push.l er6
jsr  @_usb_int
pop.l er6
pop.l er5
pop.l er4
pop.l er3
pop.l er2
pop.l er1
pop.l er0
rte
```

```
;-----
```

```
; 割り込み許可、禁止ルーチン
```

```
.EXPORT _EnableInterrupt,_DisableInterrupt
```

```
_EnableInterrupt:
```

```
andc.b #H'3f,ccr
```

```
rts
```

```
_DisableInterrupt:
```

```
orc.b #H'c0,ccr
```

```
rts
```

```
;-----
```

```
.SECTION  D,DATA
```

```
.SECTION  B,DATA
```

DATA_END: .RES.W 1

.END

PAGE 1

PROGRAM NAME =

```
1          1      .CPU 300HA
2 000000      2      .SECTION  V,CODE,LOCATE=H'000000
3          3      .IMPORT _main
4          4      .IMPORT _usb_int
5          5
6 000000 00000000  6      .DATA.L  _start    ;リセットベクトル
7 000004 00000000  7      .DATA.L  int_error
8 000008 00000000  8      .DATA.L  int_error
9 00000C 00000000  9      .DATA.L  int_error
10         10
11 000010 00000000 11      .DATA.L  int_error
12 000014 00000000 12      .DATA.L  int_error
13 000018 00000000 13      .DATA.L  int_error
14 00001C 00000000 14      .DATA.L  int_error
15         15
16 000020 00000000 16      .DATA.L  int_error
17 000024 00000000 17      .DATA.L  int_error
18 000028 00000000 18      .DATA.L  int_error
19 00002C 00000000 19      .DATA.L  int_error
20         20
21 000030 00000000 21  IRQ0: .DATA.L  int_error
22 000034 00000000 22  IRQ1: .DATA.L  int_error
23 000038 00000000 23  IRQ2: .DATA.L  int_error
24 00003C 00000000 24  IRQ3: .DATA.L  int_error
```

```

25 000040 00000000      25  IRQ4: .DATA.L    int_error
26 000044 00000000      26  IRQ5: .DATA.L    usb_interrupt
27
27
28
28
29
29  ;-----
30 000000      30      .SECTION    P,CODE,ALIGN=2
31 000000      31  _start:
32 000000 7A0700FFFF10    32      mov.l #H'0FFFF10,er7
33
33
34
34  ;初期化付きデータを使用する場合、RAMに転送する
35 000006 7A0000008000    35      mov.l #H'8000, er0      ;転送元(8000)
36 00000C 7A0100FFEF10    36      mov.l #H'0FFEF10, er1    ;転送先
37 000012 7A0200000000    37      mov.l #DATA_END, er2    ;転送終了
38 000018      38  init_loop:
39 000018 1F92      39      cmp.l er1, er2
40 00001A 58700008    40      beq  init_end
41 00001E 6C0B      41      mov.b @er0+, r3l
42 000020 689B      42      mov.b r3l, @er1
43 000022 0B71      43      inc.l #1, er1
44 000024 40F2      44      bra  init_loop
45 000026      45  init_end:
46 000026 5E000000    46      jsr  @_main
47
47
48
48  ;割り込み未使用
49 00002A      49  int_error:
50 00002A 5670      50      rte
51
51
52 00002C      52  usb_interrupt:
53 00002C 01006DF0    53      push.l er0

```

```
54 000030 01006DF1      54      push.l er1
55 000034 01006DF2      55      push.l er2
56 000038 01006DF3      56      push.l er3
57 00003C 01006DF4      57      push.l er4
```

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PROGRAM NAME =

```
58 000040 01006DF5      58      push.l er5
59 000044 01006DF6      59      push.l er6
60 000048 5E000000      60      jsr  @_usb_int
61 00004C 01006D76      61      pop.l er6
62 000050 01006D75      62      pop.l er5
63 000054 01006D74      63      pop.l er4
64 000058 01006D73      64      pop.l er3
65 00005C 01006D72      65      pop.l er2
66 000060 01006D71      66      pop.l er1
67 000064 01006D70      67      pop.l er0
68 000068 5670          68      rte
69          69
70          70
71          71 ;-----
72          72 ; 割り込み許可、禁止ルーチン
73          73
74          74      .EXPORT _EnableInterrupt,_DisableInterrupt
75 00006A          75      _EnableInterrupt:
76 00006A 063F          76      andc.b #H'3f,ccr
77 00006C 5470          77      rts
78 00006E          78      _DisableInterrupt:
```

```

79 00006E 04C0      79      orc.b #H'c0,ccr
80 000070 5470      80      rts
81                81
82                82 ;-----
83 000000          83      .SECTION  D,DATA
84                84
85                85
86 000000          86      .SECTION  B,DATA
87 000000 00000002  87  DATA_END:  .RES.W    1
88                88
89                89      .END

```

*****TOTAL ERRORS 0

*****TOTAL WARNINGS 0

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*** CROSS REFERENCE LIST

NAME	SECTION	ATTR	VALUE	SEQUENCE
B	B	SCT	00000000	86*
D	D	SCT	00000000	83*
DATA_END	B		00000000	37 87*
IRQ0	V		00000030	21*
IRQ1	V		00000034	22*
IRQ2	V		00000038	23*
IRQ3	V		0000003C	24*
IRQ4	V		00000040	25*
IRQ5	V		00000044	26*

```

P          P   SCT 00000000  30*
V          V   SCT 00000000   2*
_DisableInterrupt      P   EXPT 0000006E  74  78*
_EnableInterrupt      P   EXPT 0000006A  74  75*
_main                 IMPT 00000000   3  46
_start                P     00000000   6  31*
_usb_int              IMPT 00000000   4  60
init_end              P     00000026  40  45*
init_loop             P     00000018  38*  44
int_error             P     0000002A   7  8  9 11 12 13 14 16 17 18 19 21
                    22 23 24 25 49*
usb_interrupt         P     0000002C  26  52*

```

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*** SECTION DATA LIST

SECTION	ATTRIBUTE	SIZE	START
V	ABS-CODE	0000048	000000
P	REL-CODE	0000072	
D	REL-DATA	0000000	
B	REL-DATA	0000002	

OUTPUT usbtest
PRINT usbtest
INPUT start,main,sci,lcd,usb
LIB c:\h8\akic\c38hab
START R(0FFEF10),P(200),D(8000),C(9000)
ROM (D,R)
EXIT

LINK COMMAND LINE

LNK -subcommand=usbtest.sub

LINK SUBCOMMANDS

OUTPUT usbtest
 PRINT usbtest
 INPUT start,main,sci,lcd,usb
 LIB c:\h8\akic\c38hab
 START R(0FFEF10),P(200),D(8000),C(9000)
 ROM (D,R)
 EXIT

*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START UNIT NAME	END UNIT NAME	LENGTH MODULE NAME
--------------	--------------------	------------------	-----------------------

ATTRIBUTE : CODE NOSHR

V	H'00000000	- H'00000047	H'00000048
	start		start

* TOTAL ADDRESS * H'00000000 - H'00000047 H'00000048

ATTRIBUTE : CODE NOSHR

P	H'00000200	- H'00000271	H'00000072
	start		start
	H'00000272	- H'000015D1	H'00001360
	main		main
	H'000015D2	- H'000016A3	H'000000D2
	sci		sci
	H'000016A4	- H'000018E1	H'0000023E
	lcd		lcd
	H'000018E2	- H'000023D3	H'00000AF2
	usb		usb
	H'000023D4	- H'0000240D	H'0000003A
	rand		rand
	H'0000240E	- H'0000246B	H'0000005E
	sprintf		sprintf
	H'0000246C	- H'00002495	H'0000002A

H'00002496	-	strcmp	H'0000001C	strcmp
		strlen		strlen
H'000024B2	-	H'000024E1	H'00000030	
		vsprintf		vsprintf
H'000024E2	-	H'000027BB	H'000002DA	
		addd3		addd3
H'000027BC	-	H'000029ED	H'00000232	
		divd3		divd3
H'000029EE	-	H'000029F9	H'0000000C	
		eqd3		eqd3
H'000029FA	-	H'00002A09	H'00000010	
		ged3		ged3
H'00002A0A	-	H'00002A19	H'00000010	
		ltd3		ltd3
H'00002A1A	-	H'00002A37	H'0000001E	
		mv83		mv83
H'00002A38	-	H'00002A45	H'0000000E	
		ned3		ned3
H'00002A46	-	H'00002A67	H'00000022	
		spregld3		spregld3
H'00002A68	-	H'00002A8F	H'00000028	
		spregsv3		spregsv3

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	-	END	LENGTH
	UNIT NAME		MODULE NAME	

ATTRIBUTE : CODE NOSHR

P	H'00002A90	-	H'00002ABB	H'0000002C
			utod3	utod3
	H'00002ABC	-	H'00004869	H'00001DAE
			_fmtout	_fmtout
	H'0000486A	-	H'00004925	H'000000BC
			cmpd3	cmpd3
	H'00004926	-	H'0000494B	H'00000026
			divl3	divl3
	H'0000494C	-	H'0000496B	H'00000020
			mull3	mull3
	H'0000496C	-	H'00004D51	H'000003E6
			_dti	_dti
	H'00004D52	-	H'00004EF5	H'000001A4
			_its	_its
	H'00004EF6	-	H'00004F4F	H'0000005A
			memcpy	memcpy
	H'00004F50	-	H'00004F8B	H'0000003C
			divul3	divul3
	H'00004F8C	-	H'00004FB3	H'00000028
			_allzero	_allzero

H'00004FB4	-	H'000050AB	H'000000F8
		_calcpw	_calcpw
H'000050AC	-	H'0000514F	H'000000A4
		_log10	_log10
H'00005150	-	H'000051C7	H'00000078
		_lsfts	_lsfts
H'000051C8	-	H'000051F5	H'0000002E
		_pow5	_pow5
H'000051F6	-	H'0000526F	H'0000007A
		_rsfts	_rsfts
H'00005270	-	H'0000531B	H'000000AC
		_sub	_sub
H'0000531C	-	H'000053BF	H'000000A4
		_unpack	_unpack
H'000053C0	-	H'000053FD	H'0000003E
		memcmp	memcmp
H'000053FE	-	H'00005485	H'00000088
		_mult64	_mult64
H'00005486	-	H'000055E7	H'00000162
		_power	_power
H'000055E8	-	H'000056D1	H'000000EA
		_rnd	_rnd
H'000056D2	-	H'0000576D	H'0000009C
		_setsbit	_setsbit
H'0000576E	-	H'00005873	H'00000106
		frexp	frexp

H8/300H LINKAGE EDITOR (Evaluation software) Ver.1.0 PAGE : 3

*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	-	END	LENGTH
	UNIT NAME			MODULE NAME

ATTRIBUTE : CODE NOSHR

P	H'00005874	-	H'000059A9	H'00000136
			modf	modf
	H'000059AA	-	H'000059CB	H'00000022
			dslc3	dslc3
	H'000059CC	-	H'000059ED	H'00000022
			dsruc3	dsruc3
	H'000059EE	-	H'00005A67	H'0000007A
			dtol3	dtol3
	H'00005A68	-	H'00005A9D	H'00000036
			itod3	itod3
	H'00005A9E	-	H'00005D8B	H'000002EE
			muld3	muld3
	H'00005D8C	-	H'00005DDD	H'00000052
			_duchek	_duchek
	H'00005DDE	-	H'00005E2F	H'00000052
			_lsft	_lsft
	H'00005E30	-	H'00005FBD	H'0000018E

```

      _mult                _mult
H'00005FBE - H'00006059 H'0000009C
      _pow10              _pow10
H'0000605A - H'000060A1 H'00000048
      _add                _add
H'000060A2 - H'000060D1 H'00000030
      memset              memset

```

* TOTAL ADDRESS * H'00000200 - H'000060D1 H'00005ED2

ATTRIBUTE : DATA NOSHR ROM

```

D          H'00008000 - H'00008000 H'00000000
           start                start
H'00008000 - H'0000800F H'00000010
           usb                  usb

```

* TOTAL ADDRESS * H'00008000 - H'0000800F H'00000010

ATTRIBUTE : DATA NOSHR

```

C          H'00009000 - H'000092E5 H'000002E6
           main                main
H'000092E6 - H'0000939F H'000000BA
           usb                  usb
H'000093A0 - H'000093A7 H'00000008
           _fmtout             _fmtout

```

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	END	LENGTH	MODULE NAME
	UNIT NAME	UNIT NAME	MODULE NAME	

ATTRIBUTE : DATA NOSHR

```

C          H'000093A8 - H'000094A7 H'00000100
           _ctype              _ctype
H'000094A8 - H'0000952F H'00000088
           _its                _its
H'00009530 - H'00009537 H'00000008
           _log10              _log10
H'00009538 - H'00009617 H'000000E0
           _pow5                _pow5
H'00009618 - H'0000971B H'00000104
           _power              _power
H'0000971C - H'00009723 H'00000008
           frexp                frexp
H'00009724 - H'0000972B H'00000008
           modf                 modf

```

* TOTAL ADDRESS * H'00009000 - H'0000972B H'0000072C

ATTRIBUTE : DATA NOSHR RAM

R H'00FFEF10 - H'00FFEF10 H'00000000
start start
H'00FFEF10 - H'00FFEF1F H'00000010
usb usb

* TOTAL ADDRESS * H'00FFEF10 - H'00FFEF1F H'00000010

ATTRIBUTE : DATA NOSHR

B H'00FFEF20 - H'00FFEF21 H'00000002
start start
H'00FFEF22 - H'00FFF173 H'00000252
main main
H'00FFF174 - H'00FFF1C3 H'00000050
sci sci
H'00FFF1C4 - H'00FFF203 H'00000040
lcd lcd
H'00FFF204 - H'00FFF4D7 H'000002D4
usb usb
H'00FFF4D8 - H'00FFF513 H'0000003C
_fmtout _fmtout
H'00FFF514 - H'00FFF517 H'00000004
_rnext _rnext
H'00FFF518 - H'00FFF519 H'00000002
_errno _errno

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	END	LENGTH
	UNIT NAME	MODULE NAME	

* TOTAL ADDRESS * H'00FFEF20 - H'00FFF519 H'000005FA

H8/300H LINKAGE EDITOR (Evaluation software) Ver.1.0 PAGE : 1

*** LINKAGE EDITOR EXTERNALLY DEFINED SYMBOLS LIST ***

SYMBOL NAME	ADDR	TYPE
\$ADDD\$3	H'000025AC	DAT
\$CMPD\$3	H'0000486A	DAT
\$DIVD\$3	H'00002856	DAT
\$DIVL\$3	H'00004926	DAT

\$DIVUL\$3	H'00004F50	DAT
\$DSLCL\$3	H'000059AA	DAT
\$DSRUC\$3	H'000059CC	DAT
\$DTOL\$3	H'000059EE	DAT
\$EQD\$3	H'000029EE	DAT
\$GED\$3	H'000029FA	DAT
\$ITOD\$3	H'00005A68	DAT
\$LTD\$3	H'00002A0A	DAT
\$MULD\$3	H'00005B54	DAT
\$MULL\$3	H'0000494C	DAT
\$MV8\$3	H'00002A1A	DAT
\$NED\$3	H'00002A38	DAT
\$SUBD\$3	H'0000257C	DAT
\$UTOD\$3	H'00002A90	DAT
\$sp_regld\$3	H'00002A46	DAT
\$sp_regsv\$3	H'00002A68	DAT
_Clear	H'00000272	ENT
_ClearLCD	H'000017C2	ENT
_Cnt	H'00FFF130	DAT
_Destroy	H'00001428	ENT
_DisableInterrupt	H'0000026E	DAT
_DispUSBPort	H'000019F2	ENT
_EnableInterrupt	H'0000026A	DAT
_GetSCI	H'00001602	ENT
_GetSW	H'00001580	ENT
_H8init	H'000015A6	ENT
_Init	H'00001256	ENT
_InitLCD	H'00001752	ENT
_InitSCI	H'000015D2	ENT
_InitUSB	H'000018F8	ENT
_LCDOut4	H'000016FA	ENT
_LocateLCD	H'00001802	ENT
_PrintF	H'0000029A	ENT
_PrintLCD	H'00001826	ENT
_PrintSCI	H'00001622	ENT
_PutLCD	H'000017D6	ENT
_PutSCI	H'000015F2	ENT
_Repaint	H'00000D7A	ENT
_Run	H'00000DE6	ENT
_ScanSCI	H'00001612	ENT
_SetLED	H'00001532	ENT
_SleepMSec	H'000007F0	ENT
_Start	H'00000550	ENT
_Stop	H'0000057E	ENT
_Thread0	H'00000874	ENT
_Thread1	H'00000958	ENT
_Thread2	H'00000A44	ENT

H8/300H LINKAGE EDITOR (Evaluation software) Ver.1.0 PAGE : 2

*** LINKAGE EDITOR EXTERNALLY DEFINED SYMBOLS LIST ***

SYMBOL NAME	ADDR	TYPE
_Thread_Start	H'000005F0	ENT

__Thread_Toggle	H'0000062E	ENT
__Thread_checkAllDelete	H'0000059C	ENT
__Thread_getThread	H'000005B6	ENT
__add	H'0000605A	ENT
__allzero	H'00004F8C	ENT
__calcpw	H'00004FB4	ENT
__ctype	H'000093A8	DAT
__dti	H'0000496C	ENT
__duchek	H'00005D8C	ENT
__errno	H'00FFF518	DAT
__fmtout	H'00002ABC	ENT
__its	H'00004D52	ENT
__log10	H'000050AC	ENT
__lsft	H'00005DDE	ENT
__lsfts	H'00005150	ENT
__mult	H'00005E30	ENT
__mult64	H'000053FE	ENT
__pow10	H'00005FBE	ENT
__pow5	H'000051C8	ENT
__power	H'00005486	ENT
__rnd	H'000055E8	ENT
__rnext	H'00FFF514	DAT
__rsfts	H'000051F6	ENT
__setsbit	H'000056D2	ENT
__sub	H'00005270	ENT
__unpack	H'0000531C	ENT
__countUpNextRun	H'000003C4	ENT
__delete_	H'0000051C	ENT
__frexp	H'0000576E	ENT
__getClock	H'0000036E	ENT
__get_inbufflen	H'000023AC	ENT
__get_outbufflen	H'000023C0	ENT
__initWOVI	H'000007DC	ENT
__init_usbbuff	H'00002210	ENT
__main	H'00000AD4	ENT
__memcmp	H'000053C0	ENT
__memcpy	H'00004EF6	ENT
__memset	H'000060A2	ENT
__modf	H'00005874	ENT
__new_Thread	H'000003E4	ENT
__nextRun	H'00000380	ENT
__rand	H'000023D4	ENT
__read_buff	H'0000234E	ENT
__read_outbuff	H'000022F0	ENT
__sprintf	H'0000240E	ENT
__strcmp	H'0000246C	ENT
__strlen	H'00002496	ENT
__th101	H'00FFEFE6	DAT
__th102	H'00FFF004	DAT
__th111	H'00FFF022	DAT

SYMBOL NAME	ADDR	TYPE
_th112	H'00FFF040	DAT
_th113	H'00FFF05E	DAT
_th114	H'00FFF07C	DAT
_th120	H'00FFF09A	DAT
_th121	H'00FFF0B8	DAT
_th122	H'00FFF0D6	DAT
_th123	H'00FFF0F4	DAT
_th124	H'00FFF112	DAT
_usb_int	H'00001A56	ENT
_vsprintf	H'000024B2	ENT
_wovi	H'00000766	ENT
_woviClock	H'00FFEF22	DAT
_woviInit	H'00000734	ENT
_woviRun	H'00000672	ENT
_woviThreadFirst	H'00FFEF2A	DAT
_woviThreadLast	H'00FFEF48	DAT
_write_buff	H'0000228A	ENT
_write_inbuff	H'0000222E	ENT

```
set path=c:\h8\akic;c:\h8\akiasm;%path%
del err.txt
cc38h -cpu=300ha -include=c:\h8\akic,c:\h8\usb main.c >> err.txt
cc38h -cpu=300ha -include=c:\h8\akic,c:\h8\usb usb.c >> err.txt
cc38h -cpu=300ha -include=c:\h8\akic,c:\h8\usb sci.c >> err.txt
cc38h -cpu=300ha -include=c:\h8\akic,c:\h8\usb lcd.c >> err.txt
a38h start.asm >> err.txt
l38h -subcommand=usbtest.sub >> err.txt
c38h usbtest >> err.txt
err.txt
```

H8/300H ASSEMBLER (Evaluation software) Ver.1.0

*****TOTAL ERRORS 0

*****TOTAL WARNINGS 0

H8/300H LINKAGE EDITOR (Evaluation software) Ver.1.0

: OUTPUT usbtest

: PRINT usbtest

: INPUT start,main,sci,lcd,usb

: LIB c:\h8\akic\c38hab

: START R(0FFEF10),P(200),D(8000),C(9000)

: ROM (D,R)

: EXIT

LINKAGE EDITOR COMPLETED

H8/300H OBJECT CONVERTER (Evaluation software) Ver.1.0

OBJECT CONVERTER COMPLETED

S00E000075736274657374204D4F54D8
S11300000000200000022A0000022A0000022A67
S1130010000022A0000022A0000022A0000022A2D
S1130020000022A0000022A0000022A0000022A1D
S10B0030000022A0000022A6D
S1130038000022A0000022A0000022A0000022C03
S11302007A0700FFFF107A00000080007A0100FFE8
S1130210EF107A0200FFEF201F92587000086C0B5A
S1130220689B0B7140F25E000AD4567001006DF0BA
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