

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 100000000.0

#include <conio.h> /* kbhit(), getche() */

```
#endif

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

#define OK 1

#define NG 0

#ifndef 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 */

#ifndef 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
{
    /* 疑似スレッド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 wovinit(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)

{

#endif 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)

{

#endif USE_H8_3052F

static char buff[64];

#endif

switch(mode)

{

case Panel:

#endif 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:  
#ifndef 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 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;
    }
#endif 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 == 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;

```

```
#ifndef 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;
    /* スレットのvoid run(void)の代用 */
    Run(List);
}

List = next_List;
}
return;
}

```

```

/* 指定開始時OFF */

void wovilinit(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(Panel, "¥n");
    }
}

```

```

    PrintF(Panel, "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;
    wovilinit(); /* 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;
}

```

```
}

#define 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

#define 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)
{
    int i;
    int j;
    char key;
    Thread *th21;

#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

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

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

    for(;;)
    {
        key = ' ';
        /* タイマー呼び出し */

#ifdef USE_H8_3052F
        wovi(4000.0);
        /* 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);  
}  
}
```

```
#else
```

```
    wovi(50000.0);
```

```
    if(kbhit())
```

```
{
```

```
    key = getche();
```

```
}
```

```
if(key == '1')
```

```
{
```

```
    Thread_Toggle(21);
```

```
}
```

```
else if(key == '2')
```

```
{
```

```
    Thread_Toggle(22);
```

```
}
```

```
else if(key == '3')
```

```
{
```

```
    Thread_Toggle(23);
```

```
}
```

```
else if(key == '4')
```

```
{
```

```
    Thread_Toggle(24);
```

```
}
```

```
#endif
```

```
if(Thread_checkAllDelete() == OK)
```

```

    }

    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 */

*****
#endif
#else
PrintF(Panel, "\n");
PrintF(Panel, "Hello BCC");
#endif
#endif 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();

#ifndef 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();

#endif

#ifndef 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();

#endif

#ifndef 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 *th11;

    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 == 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

#ifndef 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 */\n\nP1.DDR = 0xff;           /* all OUT      */\nP2.DDR = 0xff;           /* all OUT      */\nP2.PCR = 0x00;           /* Pull up off */\nP5.DDR = 0xff;           /* all OUT      */\nP5.PCR = 0x00;           /* Pull up off */\nP6.DDR = 0xff;           /* all OUT      */\nP9.DDR = 0xdf;           /* Bit5 IN      */\nP8.DDR = 0xff;           /* all OUT      */\nPA.DDR = 0xf0;           /* bit7..4 out , bit3..0 in */\nPB.DDR = 0xff;           /* bit7..0 out   */
```

}

#endif

```
.CPU 300HA

.SECTION    V,CODE,LOCATE=H'0000000

.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'0FFF10,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

```
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
```

```
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=usbttest.sub >> err.txt
c38h usbttest >> err.txt
err.txt
```

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

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START UNIT	-	END 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'00001581	H'00001310	
		main		main	
	H'00001582	-	H'00001653	H'000000D2	
		sci		sci	
	H'00001654	-	H'00001891	H'0000023E	
		lcd		lcd	
	H'00001892	-	H'00002383	H'0000AF2	
		usb		usb	
	H'00002384	-	H'000023BD	H'0000003A	
		rand		rand	
	H'000023BE	-	H'0000241B	H'0000005E	
		sprintf		sprintf	
	H'0000241C	-	H'00002445	H'0000002A	

H'00002446	-	strcmp	strcmp
	H'00002461	H'0000001C	
	strlen	strlen	
H'00002462	-	H'00002491	H'00000030
	vsprintf	vsprintf	
H'00002492	-	H'0000276B	H'000002DA
	addd3	addd3	
H'0000276C	-	H'0000299D	H'00000232
	divd3	divd3	
H'0000299E	-	H'000029A9	H'0000000C
	eqd3	eqd3	
H'000029AA	-	H'000029B9	H'00000010
	ged3	ged3	
H'000029BA	-	H'000029C9	H'00000010
	ltd3	ltd3	
H'000029CA	-	H'000029E7	H'0000001E
	mv83	mv83	
H'000029E8	-	H'000029F5	H'0000000E
	ned3	ned3	
H'000029F6	-	H'00002A17	H'00000022
	spregl3	spregl3	
H'00002A18	-	H'00002A3F	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'00002A40	- H'00002A6B	H'0000002C
		utod3	utod3
	H'00002A6C	- H'00004819	H'00001DAE
		_fmtout	_fmtout
	H'0000481A	- H'000048D5	H'000000BC
		cmpd3	cmpd3
	H'000048D6	- H'000048FB	H'00000026
		divl3	divl3
	H'000048FC	- H'0000491B	H'00000020
		mull3	mull3
	H'0000491C	- H'00004D01	H'000003E6
		_dti	_dti
	H'00004D02	- H'00004EA5	H'000001A4
		_its	_its
	H'00004EA6	- H'00004EFF	H'0000005A
		memcpy	memcpy
	H'00004F00	- H'00004F3B	H'0000003C
		divul3	divul3
	H'00004F3C	- H'00004F63	H'00000028
		_allzero	_allzero

H'00004F64	-	H'0000505B	H'000000F8	
		_calcnpw		_calcnpw
H'0000505C	-	H'000050FF	H'000000A4	
		_log10		_log10
H'00005100	-	H'00005177	H'00000078	
		_lsfts		_lsfts
H'00005178	-	H'000051A5	H'0000002E	
		_pow5		_pow5
H'000051A6	-	H'0000521F	H'0000007A	
		_rsfts		_rsfts
H'00005220	-	H'000052CB	H'000000AC	
		_sub		_sub
H'000052CC	-	H'0000536F	H'000000A4	
		_unpack		_unpack
H'00005370	-	H'000053AD	H'0000003E	
		memcmp		memcmp
H'000053AE	-	H'00005435	H'00000088	
		_mult64		_mult64
H'00005436	-	H'00005597	H'00000162	
		_power		_power
H'00005598	-	H'00005681	H'000000EA	
		_rnd		_rnd
H'00005682	-	H'0000571D	H'0000009C	
		_setsbit		_setsbit
H'0000571E	-	H'00005823	H'00000106	
		frexp		frexp

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	-	END	LENGTH
	UNIT NAME			MODULE NAME

ATTRIBUTE : CODE NOSHR

P	H'00005824	-	H'00005959	H'00000136	
			modf		modf
H'0000595A	-	H'0000597B	H'00000022		
			dslc3		dslc3
H'0000597C	-	H'0000599D	H'00000022		
			dsruc3		dsruc3
H'0000599E	-	H'00005A17	H'0000007A		
			dtol3		dtol3
H'00005A18	-	H'00005A4D	H'00000036		
			itod3		itod3
H'00005A4E	-	H'00005D3B	H'000002EE		
			muld3		muld3
H'00005D3C	-	H'00005D8D	H'00000052		
			_duchek		_duchek
H'00005D8E	-	H'00005DDF	H'00000052		
			_lsft		_lsft
H'00005DE0	-	H'00005F6D	H'0000018E		

H'00005F6E	-	_mult	_mult
		H'00006009	H'0000009C
H'0000600A	-	_pow10	_pow10
		H'00006051	H'00000048
		_add	_add
H'00006052	-	H'00006081	H'00000030
		memset	memset

* TOTAL ADDRESS * H'00000200 - H'00006081 H'00005E82

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
	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'00FFF155 H'00000234
 main main
H'00FFF156 - H'00FFF1A5 H'00000050
 sci sci
H'00FFF1A6 - H'00FFF1E5 H'00000040
 lcd lcd
H'00FFF1E6 - H'00FFF4B9 H'000002D4
 usb usb
H'00FFF4BA - H'00FFF4F5 H'0000003C
 _fmtout _fmtout
H'00FFF4F6 - H'00FFF4F9 H'00000004
 _rnext _rnext
H'00FFF4FA - H'00FFF4FB 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'00FFF4FB	H'000005DC

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

SYMBOL NAME	ADDR	TYPE
\$ADD\$3	H'0000255C	DAT
\$CMPD\$3	H'0000481A	DAT
\$DIVD\$3	H'00002806	DAT
\$DIVL\$3	H'000048D6	DAT

\$DIVUL\$3	H'00004F00	DAT
\$DSLC\$3	H'0000595A	DAT
\$DSRUC\$3	H'0000597C	DAT
\$DTOL\$3	H'0000599E	DAT
\$EQD\$3	H'0000299E	DAT
\$GED\$3	H'000029AA	DAT
\$ITOD\$3	H'00005A18	DAT
\$LTD\$3	H'000029BA	DAT
\$MULD\$3	H'00005B04	DAT
\$MULL\$3	H'000048FC	DAT
\$MV8\$3	H'000029CA	DAT
\$NED\$3	H'000029E8	DAT
\$SUBD\$3	H'0000252C	DAT
\$UTOD\$3	H'00002A40	DAT
\$sp_RegId\$3	H'000029F6	DAT
\$sp_RegSv\$3	H'00002A18	DAT
_Clear	H'00000272	ENT
_ClearLCD	H'00001772	ENT
_Cnt	H'00FFF112	DAT
_Destroy	H'000013D8	ENT
_DisableInterrupt	H'0000026E	DAT
_DispUSBPort	H'000019A2	ENT
_EnableInterrupt	H'0000026A	DAT
_GetSCI	H'000015B2	ENT
_GetSW	H'00001530	ENT
_H8init	H'00001556	ENT
_Init	H'00001206	ENT
_InitLCD	H'00001702	ENT
_InitSCI	H'00001582	ENT
_InitUSB	H'000018A8	ENT
_LCDOut4	H'000016AA	ENT
_LocateLCD	H'000017B2	ENT
_PrintF	H'0000029A	ENT
_PrintLCD	H'000017D6	ENT
_PrintSCI	H'000015D2	ENT
_PutLCD	H'00001786	ENT
_PutSCI	H'000015A2	ENT
_Repaint	H'00000D8E	ENT
_Run	H'00000DFA	ENT
_ScanSCI	H'000015C2	ENT
_SetLED	H'000014E2	ENT
_SleepMSec	H'000007E0	ENT
_Start	H'00000540	ENT
_Stop	H'0000056E	ENT
_Thread0	H'00000864	ENT
_Thread1	H'00000948	ENT
_Thread2	H'00000A34	ENT

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

SYMBOL NAME	ADDR	TYPE
_Thread_Start	H'000005E0	ENT

_Thread_Toggle	H'0000061E	ENT
_Thread_checkAllDelete	H'0000058C	ENT
_Thread_getThread	H'000005A6	ENT
__add	H'0000600A	ENT
__allzero	H'00004F3C	ENT
__calcnpw	H'00004F64	ENT
__ctype	H'000093A8	DAT
__dti	H'0000491C	ENT
__duchek	H'00005D3C	ENT
__errno	H'00FFF4FA	DAT
__fmtout	H'00002A6C	ENT
__its	H'00004D02	ENT
__log10	H'0000505C	ENT
__lsft	H'00005D8E	ENT
__lsfts	H'00005100	ENT
__mult	H'00005DE0	ENT
__mult64	H'000053AE	ENT
__pow10	H'00005F6E	ENT
__pow5	H'00005178	ENT
__power	H'00005436	ENT
__rnd	H'00005598	ENT
__rnext	H'00FFF4F6	DAT
__rsfts	H'000051A6	ENT
__setsbit	H'00005682	ENT
__sub	H'00005220	ENT
__unpack	H'000052CC	ENT
_countUpNextRun	H'000003C4	ENT
delete	H'0000050C	ENT
_frexp	H'0000571E	ENT
_getClock	H'0000036E	ENT
_get_inbufflen	H'0000235C	ENT
_get_outbufflen	H'00002370	ENT
_initWOVI	H'000007CC	ENT
_init_usbbuff	H'000021C0	ENT
_main	H'00000AE8	ENT
_memcmp	H'00005370	ENT
_memcpy	H'00004EA6	ENT
_memset	H'00006052	ENT
_modf	H'00005824	ENT
_new_Thread	H'000003E4	ENT
_nextRun	H'00000380	ENT
_rand	H'00002384	ENT
_read_buff	H'000022FE	ENT
_read_outbuff	H'000022A0	ENT
_sprintf	H'000023BE	ENT
_strcmp	H'0000241C	ENT
_strlen	H'00002446	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
_th121	H'00FFF09A	DAT
_th122	H'00FFF0B8	DAT
_th123	H'00FFF0D6	DAT
_th124	H'00FFF0F4	DAT
_usb_int	H'00001A06	ENT
_vsprintf	H'00002462	ENT
_wovi	H'00000756	ENT
_woviClock	H'00FFEF22	DAT
_woviInit	H'00000724	ENT
_woviRun	H'00000662	ENT
_woviThreadFirst	H'00FFEF2A	DAT
_woviThreadLast	H'00FFEF48	DAT
_write_buff	H'0000223A	ENT
_write_inbuff	H'000021DE	ENT

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

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