

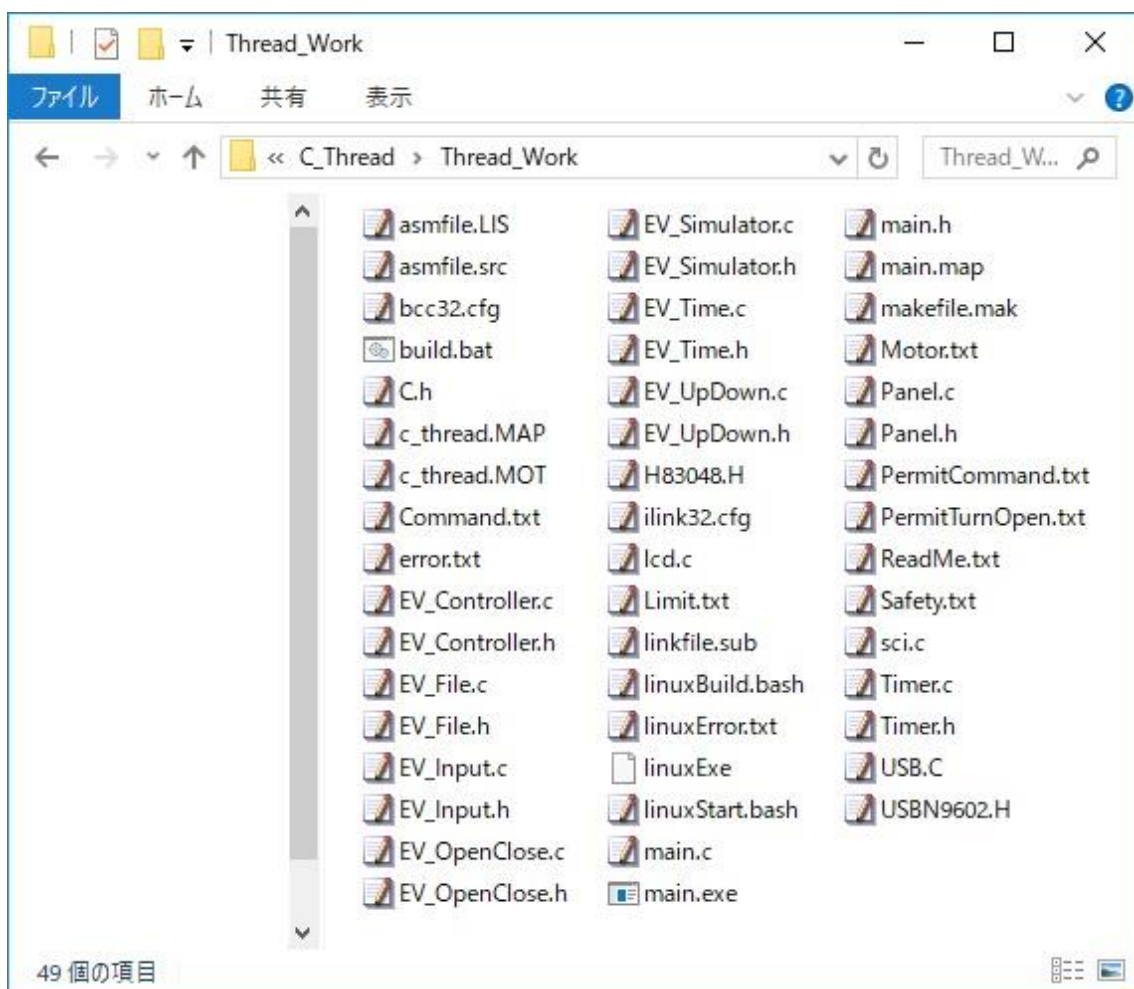
発明の巻

C 言語の疑似スレッド最新版(ライセンスフリー) のサポートパック(324,000 円)

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があります。今回、マイコンのインターバルタイマを使用して、並行処理タイプのスレッド(疑似スレッドと命名)を作成しました。C 言語のスレッドです。低レベル環境に移植可能です。(16bit 以上)サンプルに、エレベーターのプログラムが入っています。「コントローラ」「シミュレータ」の2つのプログラムを並行処理技術により連携しながら同時実行するように開発しました。プロセスが1個でスレッド(プログラム)が複数で動かします。LINUX よりも前の世代のマイコンはプロ

セスが1個しか入らないでしょうから。C, Assembly, Batch Shell Script 使用。2018年3月11日版プログラムです。初期デバッグ対応します。日本語で、日本国内で、初期サポート対応可能です。改造は自己責任でお願いします。324,000円の中身は初期サポート代です。サンプルコードは開発終了品です。購入後、ご自由に、使用・改造・配布、O.K.です。

お問い合わせ先：info@hidemine.ciao.jp



発明アルゴリズムに疑似スレッドと名付けました。本物に偽物と名付けました。特許申請はしないで、無料公開をいたしました。発明という手段で人類としてのノルマを達成し、また、生きた証が発生いたしました。篠宮氏を逆賊に祭り上げようとする人種がいます。篠宮氏は辞退いたします。秋篠宮家様は本物の皇族ですが、篠宮氏は偽物です。

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.

解説

C言語のプロジェクト Thread について、

このプロジェクトは予告なくデバッグ目的で更新されることがあります。

このプロジェクトは、お客様が改造して、よりお客様に使いやすいプログラムにするために、提供されるサンプルプログラムであり、お客様の好みに完成させてください。

=====
Borland BCC C/C++ のダウンロードとインストール

bcc コンパイラー で検索します

C++Builder のホームページを開きます

C++ Compiler 5.5 / Turbo Debugger (日本語) (コンパイラのみで軽い)

(テキストエディタと組み合わせて使用します)(フリーソフト)

(ユーザー登録が必要)(メールアドレスが必要)をダウンロードして

解凍します

freecommandlinetools2.exeをインストールします

freeturbodebugger.exeをインストールします

AKI-H8 3052F USB開発セット の購入

メーカー：ルネサスエレクトロニクスさん

販売者：秋月電子通商さん

通販コード：K-00182

商品名：AKI-H8 3052F USB開発セット

商品価格：税込7,000円(2018年3月6日現在)

AKI-H8 3052F USB開発セット で検索します

AKI-H8 3052F USB開発セット を 秋月電子通商さんの通販サイトで購入

するか、それとも ご自宅の最寄りの電子パーツ専門店で注文購入します
もしも、AKI-H8 3052F USB開発セットにACアダプターが
入っていなかったら(私は未確認です)、ご自宅の最寄りの
電子パーツ専門店の人に電流・電圧を聞いて、ACアダプターも、
購入してください

RS-232Cケーブルと延長USBコードをご自宅の最寄りの
電子パーツ専門店で注文購入します

RS-232Cは、パソコンに端子がある必要があり、また、パソコンと
AKI-H8基板の両方のコネクタのオス端子・メス端子を確認して
購入してください

延長USBコードもオス端子・メス端子を確認してください

カラー短絡ソケット6mm 青 2228CG-BUで検索します

カラー短絡ソケット6mm 青 2228CG-BUのような短絡コネクタを、
ご自宅の最寄りの電子パーツ専門店で1個注文購入します

(100円か200円支払うと何個かまとめて購入できます)

USB開発セットのマニュアルに従い、usbフォルダのmain.cを
コンパイルして、H8WriteTurboをインストールして、AKI-H8基板
への書き込み時に、短絡ソケットを使用して、マニュアルに従い
モードを調節して、usbフォルダのusbtest.MOTをAKI-H8基板
へ書き込み、走らせてみます

押しボタンを押すと、sw1 sw2 sw3 sw4などと液晶パネルに
表示されれば大丈夫です。

C_Threadフォルダの中の、Thread_Workフォルダの中の、c_thread.MOT
を、モードを調節しながら、AKI-H8基板へ書き込み、走らせてみます
液晶パネル・押しボタン・LEDなどが機能していれば、成功です

Linux CentOS6 の利用

私は、CentOS にしましたが、linuxBuild.bash・linuxStart.bash
が読める方は、お好きなLinuxで挑戦してみてください

=====

asmfile.src について。

リセットベクトルの転送先ラベルが `_start` になっています。

ずっと下の方の `_start` のラベルから処理を開始して、

```
jsr @_main
```

でC言語の関数`main` を呼び出しています。

C言語の関数`main` は、`void main(void);` という形で、

`main.c` に記述があります。

その後、

```
int_error:
```

```
rte
```

で `rte` (`return`と同じ意味) で終了しています。

リセットベクトルに続く1番から60番までの割り込みベクトルについて、

使用しない割り込みベクトルはラベル`int_error`に転送されます。

```
;26 OVI0
```

```
_INT_OVI0: .DATA.L _ITU_OVI_0 ;タイマ0割り込み
```

で、タイマ0割り込みは、ラベル`_ITU_OVI_0`に転送されます。

ラベル`_ITU_OVI_0`から開始して、スタック退避をして、

```
jsr @_InterruptITU0
```

で、C言語の関数InterruptITU0 を呼び出しています。

C言語の関数InterruptITU0 は void InterruptITU0(void); という形で、
Timer.h Timer.c に記述があります。

戻ってくると、再びスタックを戻して、rte です。

ファイルの先頭に、

```
.IMPORT _main
```

```
.IMPORT _InterruptITU0
```

という記述があり、C言語の関数を参照しています。

```
.EXPORT _EnableInterrupt,_DisableInterrupt
```

```
_EnableInterrupt:
```

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

```
rts
```

```
_DisableInterrupt:
```

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

```
rts
```

で、C言語から

```
_EnableInterrupt (割り込み許可)
```

```
_DisableInterrupt (割り込み禁止)
```

を呼び出せるようにしています。

C言語の Panel.h に 外部参照プロトタイプ宣言 があります。

```
extern void EnableInterrupt(void);
```

```
extern void DisableInterrupt(void);
```

C言語からの呼び出し名は、

```
EnableInterrupt();
```

```
DisableInterrupt();
```

です。

=====
main.c の関数 Run の ID==31 を見てください。

Thread Ready GO! で開始して競馬のコースが8コースあります。

Thread Ready GO! There are 8 cources on a race.

ゴールまで14歩です。

There are 80 cells to a GOAL.

<1>コースは'r'ボタンが鞭で<2>コースは'l'ボタンが鞭です。

For the <1> course, You click a 'R' button.

For the <2> course, You click a 'L' button.

スレッドを使用しています。

Thread *th[8]; でオブジェクト宣言しています。

th[i] = new_Thread(i + 1); で初期値設定しています。

この2行は Java で次と同じ意味です。

```
Thread th[] = new Thread[8];
```

```
th[i] = new Thread(i + 1);
```

```
void Repaint(void)
```

```
{
```

```
    ...
```

```
}
```

```
void Run(Thread *This)
```

```
{
```

```
    ...
}

void Init(Thread *This)
{
    ...
}

void Destroy(Thread *This)
{
    ...
}
```

はそれぞれ Java で次と同じ意味です。

```
public void paint(Graphics g)
{
    ...
}

public void run()
{
    ...
}

public void init()
{
    ...
}

public void destroy()
{
    ...
}
```

`delete_(th[i]);` でオブジェクトを消去しています。

この1行は C++ で次と同じ意味です。

```
delete th[i];
```

スレッド20が走り始めたら、

0以外の数字キーを押してみてください。

その数字に20を加えた番号のスレッドが、キーを押す度毎に、
起動・消去を繰り返します。

20を含めて、全部スレッドが消去されると、終了です。

これらのスレッドに関する仕様は Timer.c に記述しました。

=====

2階建エレベーターEVについて

使用方法

EV_Simulator にエレベーターが表示されます

EV_Controller にエレベーターの動作が表示されます

EV_Input の使用方法

u キーを押すとエレベーターが2階に上昇して扉が開きます

d キーを押すとエレベーターが1階に下降して扉が開きます

o キーを押すと扉が開きます

c キーを押すと扉が閉じます

s キーを押すと籠が非常停止します

r キーを押すと籠が非常停止から復帰します

Y キーを押すとエレベーターが2階に上昇して扉が開きます

H キーを押すと2階で扉が閉じます

y キーを押すとエレベーターが1階に下降して扉が開きます

h キーを押すと1階で扉が閉じます

籠が無い階で H h キーを押しても籠は動作しません

籠が無い階で Y y キーを押したとき籠の扉が開いていると籠は動作しません

開いた状態の扉は一定時間後自動で閉じます

EV_Time.h に #define OPENTIMEOUT 10 と書いてあるので 10秒 です

閉まりかけの時に開く動作をするキーを押すと扉が反転して開きます

動作説明

全体の動作説明

モーターの情報は Motor.txt にあります

エレベーター塔内のリミットスイッチの情報は Limit.txt にあります

EV_Simulator はエレベーターの次の位置を出力していて Safety.txt

Motor.txt Limit.txt を採取して Safety.txt Limit.txt に書き込んで

エレベーターの画面表示もしています

EV_Controller はエレベータを制御していて Command.txt Limit.txt

を採取して PermitCommand.txt Motor.txt に書き込んでいます

EV_Controllerの動作説明

エレベーターには現在位置情報(Limit.txt)があります

最簡形の2階建ての場合通常系には5個の位置状態があります

下の階の停止状態

下の階の低速区域

中間の高速区域

上の階の低速区域

上の階の停止状態

5個の区域の境界に合計4個のセンサーがあります

4個のセンサーがエレベーターの現在位置を取得しています

4個のセンサーからの信号はメンバ変数(Positionクラスの

*p_UnderSlow *p_UnderStop *p_UpperSlow *p_UpperStop)

に読み込みます

昇りのメソッド(UpMotorクラスのOnUpMotor)と降りのメソッド

(DownMotorクラスのOnDownMotor)を使って

モーターに出力(Motor.txtに出力)します

全く同じ様にドアも通常系で4個のセンサーがありドアの開閉では

エレベーターの昇降と全く同じクラス構造です

後はインスタンス(Position P UpMotor UPMT DownMotor DNMT

Door DR OpenMotor OPMT CloseMotor CLMT)

を宣言して仕様に合わせてメソッドを呼び出すだけでO.K.です

終了方法

エレベーターが通常停止しているときに q キーを押します

メンテナンス

異常終了した場合、終了後、Thread_Work フォルダの次のファイルをチェックしてください

Safety.txt

Safety.txt を開いて r にして上書き保存してください

r は通常動作を意味します

s は非常停止を意味します

h は復帰を意味します

Y はスターデルタのスター起動を意味します

Command.txt

Command.txt を開いて q にして上書き保存してください

q は終了を意味します

u は上昇を意味します

d は下降を意味します

o は開を意味します

c は閉を意味します

Y は上階呼びを意味します

y は下階呼びを意味します

H は上階閉を意味します

h は下階閉を意味します

N は信号無しを意味します

PermitCommand.txt

PermitCommand.txt を開いて c にして上書き保存してください

N は命令入力禁止を意味します

c は命令入力許可を意味します

PermitTurnOpen.txt

PermitTurnOpen.txtを開いて N にして上書き保存してください

N は反転開信号入力禁止を意味します

o は反転開信号入力許可を意味します

Motor.txt

Motor.txt を開いて s にして上書き保存してください

s はモーター停止を意味します

j はモーター上昇回転開始を意味します

u はモーター低速上昇回転を意味します

U はモーター高速上昇回転を意味します

k はモーター下降回転開始を意味します

d はモーター低速下降回転を意味します

D はモーター高速下降回転を意味します

h はモーター開回転開始を意味します

o はモーター低速開回転を意味します

O はモーター高速開回転を意味します

t はモーター閉回転開始を意味します

c はモーター低速閉回転を意味します

C はモーター高速閉回転を意味します

Limit.txt

Limit.txt を開いて ynnnyynn にして上書き保存してください

ynnnnyynn は籠が下階停止状態で扉が閉停止状態であることを意味します

ynnnnyynn は籠が下階停止状態で扉が開低速区域であることを意味します

ynnnnyynn は籠が下階停止状態で扉が中間高速区域であることを意味します

ynnnnyynn は籠が下階停止状態で扉が開低速区域であることを意味します

ynnnnyynn は籠が下階停止状態で扉が開停止状態であることを意味します

nnnnnyynn は籠が下階低速区域で扉が閉停止状態であることを意味します

nnnnnyynn は籠が中間高速区域で扉が閉停止状態であることを意味します

nnyynyynn は籠が上階低速区域で扉が閉停止状態であることを意味します
nnyyyynn は籠が上階停止状態で扉が閉停止状態であることを意味します
nnyynyynn は籠が上階停止状態で扉が閉低速区域であることを意味します
nnyynnnn は籠が上階停止状態で扉が中間高速区域であることを意味します
nnyynnyyn は籠が上階停止状態で扉が開低速区域であることを意味します
nnyynnyy は籠が上階停止状態で扉が開停止状態であることを意味します

=====

Linux CentOS6 の GCC を使用するとき、文字コードを utf8 にして
改行コードを <LF>のみ(UNIX) にして名前を付けて保存してください

makefile.mak build.bat asmfile.src linkfile.sub linuxBuild.bash は
複数のファイルを1個のプロジェクトとして
コンパイルするためのファイルです。

error.txt linuxError.txt はコンパイルエラーを表示するファイルです。

main.exe をダブルクリックすると、BCC実行ソフトが起動します。

c_thread.MOT を AKI-H8 3052F USB に書き込みます。

linuxStart.bash をダブルクリックすると、
GCC実行ソフト linuxExe が起動します。

参照ライブラリ

```

/*****
/*      H8/3048F Include File                               */
/*****

struct st_sam {
    void          *MAR;          /* MAR          */
    unsigned int  ETCR;         /* ETCR         */
    unsigned char IOAR;         /* IOAR         */
    unsigned char DTCR;         /* DTCR         */
};

struct st_fam {
    void          *MARA;         /* MARA         */
    unsigned int  ETCRA;        /* ETCRA        */
    unsigned char IOARA;        /* IOAR         */
    unsigned char DTCRA;        /* DTCRA        */
    void          *MARB;         /* MARB         */
    unsigned int  ETCRB;        /* ETCRB        */
    unsigned char IOARB;        /* IOAR         */
    unsigned char DTCRB;        /* DTCRB        */
};

struct st_itu {
    unsigned char TSTR;         /* TSTR         */
    unsigned char TSNC;         /* TSNC         */
    unsigned char TMDR;         /* TMDR         */
    unsigned char TFCR;         /* TFCR         */
    char          wk[44];       /*              */
    unsigned char TOER;         /* TOER         */
    unsigned char TOCR;         /* TOCR         */
};

struct st_itu0 {
    unsigned char TCR;          /* TCR          */
    unsigned char TIOR;         /* TIOR         */
    unsigned char TIER;         /* TIER         */
    unsigned char TSR;          /* TSR          */
    unsigned int  TCNT;         /* TCNT         */
    unsigned int  GRA;          /* GRA          */
    unsigned int  GRB;          /* GRB          */
};

struct st_itu3 {
    unsigned char TCR;          /* TCR          */
    unsigned char TIOR;         /* TIOR         */
    unsigned char TIER;         /* TIER         */
    unsigned char TSR;          /* TSR          */
    unsigned int  TCNT;         /* TCNT         */
    unsigned int  GRA;          /* GRA          */
    unsigned int  GRB;          /* GRB          */
    unsigned int  BRA;          /* BRA          */
    unsigned int  BRB;          /* BRB          */
    char          wk[2];        /*              */
};

struct st_tpc {
    unsigned char TPMR;         /* TPMR         */
    unsigned char TPCR;         /* TPCR         */
};

```

```

    unsigned char  NDERB;      /* NDERB      */
    unsigned char  NDERA;      /* NDERA      */
    unsigned char  NDRB1;     /* NDRB (H'A4) */
    unsigned char  NDRA1;     /* NDRA (H'A5) */
    unsigned char  NDRB2;     /* NDRB (H'A6) */
    unsigned char  NDRA2;     /* NDRA (H'A7) */
};

struct st_rfshc {            /* struct RFSHC */
    unsigned char  RFSHCR;    /* RFSHCR     */
    unsigned char  RTMCSR;    /* RTMCSR     */
    unsigned char  RTCNT;     /* RTCNT      */
    unsigned char  RTCOR;     /* RTCOR      */
};

struct st_sci {             /* struct SCI  */
    unsigned char  SMR;       /* SMR        */
    unsigned char  BRR;       /* BRR        */
    unsigned char  SCR;       /* SCR        */
    unsigned char  TDR;       /* TDR        */
    unsigned char  SSR;       /* SSR        */
    unsigned char  RDR;       /* RDR        */
    char           wk[2];     /*            */
};

struct st_p1 {             /* struct P1   */
    unsigned char  DDR;       /* P1DDR      */
    char           wk;        /*            */
    unsigned char  DR;        /* P1DR       */
};

struct st_p2 {             /* struct P2   */
    unsigned char  DDR;       /* P2DDR      */
    char           wk1;       /*            */
    unsigned char  DR;        /* P2DR       */
    char           wk2[20];   /*            */
    unsigned char  PCR;       /* P2PCR      */
};

struct st_p4 {             /* struct P4   */
    unsigned char  DDR;       /* P4DDR      */
    char           wk1;       /*            */
    unsigned char  DR;        /* P4DR       */
    char           wk2[18];   /*            */
    unsigned char  PCR;       /* P4PCR      */
};

struct st_p5 {             /* struct P5   */
    unsigned char  DDR;       /* P5DDR      */
    char           wk1;       /*            */
    unsigned char  DR;        /* P5DR       */
    char           wk2[16];   /*            */
    unsigned char  PCR;       /* P5PCR      */
};

struct st_p6 {             /* struct P6   */
    unsigned char  DDR;       /* P6DDR      */

```

```

char          wk;          /* */
unsigned char DR;         /* P6DR */
};

struct st_p7 {             /* struct P7 */
    unsigned char DR;     /* P7DR */
};

struct st_p8 {             /* struct P8 */
    unsigned char DDR;    /* P8DDR */
    char          wk;     /* */
    unsigned char DR;     /* P8DR */
};

struct st_p9 {             /* struct P9 */
    unsigned char DDR;    /* P9DDR */
    char          wk;     /* */
    unsigned char DR;     /* P9DR */
};

struct st_da {             /* struct D/A */
    unsigned char STCR;   /* DASTCR */
    char          wk[127]; /* */
    unsigned char DR0;    /* DADR0 */
    unsigned char DR1;    /* DADR1 */
    unsigned char CR;     /* DACR */
};

struct st_ad {             /* struct A/D */
    unsigned int  DRA;    /* ADDRA */
    unsigned int  DRB;    /* ADDR B */
    unsigned int  DRC;    /* ADDR C */
    unsigned int  DRD;    /* ADDR D */
    unsigned char CSR;    /* ADCSR */
    unsigned char CR;     /* ADCR */
};

struct st_bsc {            /* struct BSC */
    unsigned char CSCR;   /* CSCR */
    char          wk1[140]; /* */
    unsigned char ABWCR;  /* ABWCR */
    unsigned char ASTCR;  /* ASTCR */
    unsigned char WCR;    /* WCR */
    unsigned char WCER;   /* WCER */
    char          wk2[3];  /* */
    unsigned char BRCCR;  /* BRCCR */
};

struct st_intc {           /* struct INTC */
    unsigned char ISCR;   /* ISCR */
    unsigned char IER;    /* IER */
    unsigned char ISR;    /* ISR */
    char          wk;     /* */
    unsigned char IPRA;   /* IPRA */
    unsigned char IPRB;   /* IPRB */
};

```

```

#define DMAC0A (*(volatile struct st_sam *)0xFFFF20) /* DMAC 0A Addr */
#define DMAC0B (*(volatile struct st_sam *)0xFFFF28) /* DMAC 0B Addr */
#define DMAC1A (*(volatile struct st_sam *)0xFFFF30) /* DMAC 1A Addr */
#define DMAC1B (*(volatile struct st_sam *)0xFFFF38) /* DMAC 1B Addr */
#define DMAC0 (*(volatile struct st_fam *)0xFFFF20) /* DMAC 0 Addr */
#define DMAC1 (*(volatile struct st_fam *)0xFFFF30) /* DMAC 1 Addr */
#define ITU (*(volatile struct st_itu *)0xFFFF60) /* ITU Address */
#define ITU0 (*(volatile struct st_itu0 *)0xFFFF64) /* ITU0 Address */
#define ITU1 (*(volatile struct st_itu0 *)0xFFFF6E) /* ITU1 Address */
#define ITU2 (*(volatile struct st_itu0 *)0xFFFF78) /* ITU2 Address */
#define ITU3 (*(volatile struct st_itu3 *)0xFFFF82) /* ITU3 Address */
#define ITU4 (*(volatile struct st_itu3 *)0xFFFF92) /* ITU4 Address */
#define TPC (*(volatile struct st_tpc *)0xFFFFA0) /* TPC Address */
#define RFSHC (*(volatile struct st_rfshc *)0xFFFFAC) /* RFSHC Address */
#define SCI0 (*(volatile struct st_sci *)0xFFFFB0) /* SCI0 Address */
#define SCI1 (*(volatile struct st_sci *)0xFFFFB8) /* SCI1 Address */
#define P1 (*(volatile struct st_p1 *)0xFFFFC0) /* P1 Address */
#define P2 (*(volatile struct st_p2 *)0xFFFFC1) /* P2 Address */
#define P3 (*(volatile struct st_p1 *)0xFFFFC4) /* P3 Address */
#define P4 (*(volatile struct st_p4 *)0xFFFFC5) /* P4 Address */
#define P5 (*(volatile struct st_p5 *)0xFFFFC8) /* P5 Address */
#define P6 (*(volatile struct st_p6 *)0xFFFFC9) /* P6 Address */
#define P7 (*(volatile struct st_p7 *)0xFFFFCE) /* P7 Address */
#define P8 (*(volatile struct st_p8 *)0xFFFFCD) /* P8 Address */
#define P9 (*(volatile struct st_p9 *)0xFFFFD0) /* P9 Address */
#define PA (*(volatile struct st_p1 *)0xFFFFD1) /* PA Address */
#define PB (*(volatile struct st_p1 *)0xFFFFD4) /* PB Address */
#define DA (*(volatile struct st_da *)0xFFFF5C) /* D/A Address */
#define AD (*(volatile struct st_ad *)0xFFFFE0) /* A/D Address */
#define BSC (*(volatile struct st_bsc *)0xFFFF5F) /* BSC Address */
#define FLMCR (*(volatile unsigned char *)0xFFFF40) /* FLMCR Address */
#define EBR1 (*(volatile unsigned char *)0xFFFF42) /* EBR1 Address */
#define EBR2 (*(volatile unsigned char *)0xFFFF43) /* EBR2 Address */
#define RAMCR (*(volatile unsigned char *)0xFFFF48) /* RAMCR Address */
#define DIVCR (*(volatile unsigned char *)0xFFFF5D) /* DIVCR Address */
#define MSTCR (*(volatile unsigned char *)0xFFFF5E) /* MSTCR Address */
#define MDCR (*(volatile unsigned char *)0xFFFFF1) /* MDCR Address */
#define SYSCR (*(volatile unsigned char *)0xFFFFF2) /* SYSCR Address */
#define INTC (*(volatile struct st_intc *)0xFFFFF4) /* INTC Address */
#define st_itu1 st_itu0 /* Change Struct ITU1 */
#define st_itu2 st_itu0 /* Change Struct ITU2 */
#define st_itu4 st_itu3 /* Change Struct ITU4 */
#define st_p3 st_p1 /* Change Struct P3->P1 */
#define st_pa st_p1 /* Change Struct PA->P1 */
#define st_pb st_p1 /* Change Struct PB->P1 */

```

```
/*=====
                                     N9604 Address
=====*/
#define    USB9602R    (*(volatile unsigned char *)0x400003)
#define    USB9602D    (*(volatile unsigned char *)0x400001)
```

```
/*=====
                                     N9604 Define
=====*/
#define    USB_CLKDIV    0x04    /* CLKOUT = 48MHz/4 = 12MHz */
```

```
/* USB1.0リクエスト */
```

```
#define    USB_GET_STATUS        0
#define    USB_CLEAR_FEATURE    1
#define    USB_SET_FEATURE      3
#define    USB_SET_ADDRESS      5
#define    USB_GET_DESCRIPTOR   6
#define    USB_SET_DESCRIPTOR   7
#define    USB_GET_CONFIGURATION 8
#define    USB_SET_CONFIGURATION 9
#define    USB_GET_INTERFACE    10
#define    USB_SET_INTERFACE    11
#define    USB_SYNCH_FRAME      12
```

```
/* ディスクリプタ名 */
```

```
#define    USB_DEVICE        1
#define    USB_CONFIGURATION 2
```



```

#define USB_XSTRING          3
#define USB_INTERFACE        4
#define USB_ENDPOINT         5
#define USB_HID              0x21
#define USB_HIDREPORT        0x22
#define USB_HIDPHYSICAL      0x23

```

```

/* HIDリクエスト */

```

```

#define USB_GET_REPORT       0x01
#define USB_GET_IDLE        0x02
#define USB_GET_PROTOCOL    0x03
#define USB_SET_REPORT      0x09
#define USB_SET_IDLE        0x0A
#define USB_SET_PROTOCOL    0x0B

```

```

/*=====

```

N9604 Register

```

=====*/

```

```

#define USB_MCNTL           0x00 /*Main control register */
#define USB_CCONF          0x01 /*Clk. config. register */
#define USB_TCR             0x02 /*Xcvr config. register */
#define USB_RID            0x03 /*Rev. ID  register */
#define USB_FAR            0x04 /*Func address register */
#define USB_NFSR           0x05 /*Node func st register */
#define USB_MAEV           0x06 /*Main event  register */
#define USB_MAMSK          0x07 /*Main mask  register */
#define USB_ALTEV          0x08 /*Alt. event  register */
#define USB_ALTMSK         0x09 /*ALT mask  register */

```

```

#define USB_TXEV          0x0A /*TX event register */
#define USB_TXMSK        0x0B /*TX mask register */
#define USB_RXEV          0x0C /*RX event register */
#define USB_RXMSK        0x0D /*RX mask register */
#define USB_NAKEV        0x0E /*NAK event register */
#define USB_NAKMSK       0x0F /*NAK mask register */
#define USB_FWEV          0x10 /*FIFO warning register */
#define USB_FWMSK        0x11 /*FIFO warning mask */
#define USB_FNH           0x12 /*Frame nbr hi register */
#define USB_FNL           0x13 /*Frame nbr lo register */
#define USB_DMACNTRL     0x14 /*DMA control register */

#define USB_EPC0          0x20 /*Endpoint0 register */
#define USB_TXD0          0x21 /*TX data register 0 */
#define USB_TXS0          0x22 /*TX status register 0 */
#define USB_TXC0          0x23 /*TX command register 0 */

#define USB_RXD0          0x25 /*RX data register 0 */
#define USB_RXS0          0x26 /*RX status register 0 */
#define USB_RXC0          0x27 /*RX command register 0 */

#define USB_EPC1          0x28 /*Endpoint1 register */
#define USB_TXD1          0x29 /*TX data register 1 */
#define USB_TXS1          0x2A /*TX status register 1 */
#define USB_TXC1          0x2B /*TX command register 1 */

#define USB_EPC2          0x2C /*Endpoint2 register */
#define USB_RXD1          0x2D /*RX data register 1 */
#define USB_RXS1          0x2E /*RX status register 1 */

```

```

#define USB_RXC1          0x2F /*RX  command register 1 */

#define USB_EPC3          0x30 /*Endpoint3  register */
#define USB_TXD2          0x31 /*TX  data  register 2 */
#define USB_TXS2          0x32 /*TX  status register 2 */
#define USB_TXC2          0x33 /*TX  command register 2 */

#define USB_EPC4          0x34 /*Endpoint4  register */
#define USB_RXD2          0x35 /*RX  data  register 2 */
#define USB_RXS2          0x36 /*RX  status register 2 */
#define USB_RXC2          0x37 /*RX  command register 2 */

#define USB_EPC5          0x38 /*Endpoint5  register */
#define USB_TXD3          0x39 /*TX  data  register 3 */
#define USB_TXS3          0x3A /*TX  status register 3 */
#define USB_TXC3          0x3B /*TX  command register 3 */

#define USB_EPC6          0x3C /*Endpoint6  register */
#define USB_RXD3          0x3D /*RX  data  register 3 */
#define USB_RXS3          0x3E /*RX  status register 3 */
#define USB_RXC3          0x3F /*RX  command register 3 */

/*----- MCNTRL bits -----*/

#define USB_SRST          0x01 /*software reset      */
#define USB_DBG           0x02 /*debug mode          */
#define USB_VGE           0x04 /*voltage regulator enable*/
#define USB_NAT           0x08 /*node attached       */
#define USB_INT_DIS       0x00 /*interrupts disabled */
#define USB_INT_L_O       0x40 /*act lo ints, open drain */

```

```

#define USB_INT_H_P      0x80 /*act hi ints, push pull */
#define USB_INT_L_P      0xC0 /*act lo ints, push pull */

/*----- FAR bits -----*/
#define USB_AD_EN        0x80 /*address enable */

/*----- NFSR bits -----*/
#define USB_RST_ST       0x00 /*reset state */
#define USB_RSM_ST       0x01 /*resume state */
#define USB_OPR_ST       0x02 /*operational state */
#define USB_SUS_ST       0x03 /*suspend state */

/*----- MAEV, MAMSK bits -----*/
#define USB_WARN         0x01 /*warning bit has been set*/
#define USB_ALT          0x02 /*alternate event */
#define USB_TX_EV        0x04 /*transmit event */
#define USB_FRAME        0x08 /*SOF packet received */
#define USB_NAK          0x10 /*NAK event */
#define USB_ULD          0x20 /*unlock locked detected */
#define USB_RX_EV        0x40 /*receive event */
#define USB_INTR_E       0x80 /*master interrupt enable */

/*----- ALTEV, ALTMSK bits -----*/
#define USB_EOP          0x08 /*end of packet */
#define USB_SD3          0x10 /*3 ms suspend */
#define USB_SD5          0x20 /*5 ms suspend */
#define USB_RESET_A      0x40 /*reset detected */
#define USB_RESUME_A     0x80 /*resume detected */

```

/*----- TXEV, TXMSK bits -----*/

```
#define USB_TXFIFO0      0x01 /*TX_DONE, FIFO 0 */
#define USB_TXFIFO1      0x02 /*TX_DONE, FIFO 1 */
#define USB_TXFIFO2      0x04 /*TX_DONE, FIFO 2 */
#define USB_TXFIFO3      0x08 /*TX_DONE, FIFO 3 */
#define USB_TXUDRN0      0x10 /*TX_URUN, FIFO 0 */
#define USB_TXUDRN1      0x20 /*TX_URUN, FIFO 1 */
#define USB_TXUDRN2      0x40 /*TX_URUN, FIFO 2 */
#define USB_TXUDRN3      0x80 /*TX_URUN, FIFO 3 */
```

/*----- RXEV, RXMSK bits -----*/

```
#define USB_RXFIFO0      0x01 /*RX_DONE, FIFO 0 */
#define USB_RXFIFO1      0x02 /*RX_DONE, FIFO 1 */
#define USB_RXFIFO2      0x04 /*RX_DONE, FIFO 2 */
#define USB_RXFIFO3      0x08 /*RX_DONE, FIFO 3 */
#define USB_RXOVRN0      0x10 /*RX_OVRN, FIFO 0 */
#define USB_RXOVRN1      0x20 /*RX_OVRN, FIFO 1 */
#define USB_RXOVRN2      0x40 /*RX_OVRN, FIFO 2 */
#define USB_RXOVRN3      0x80 /*RX_OVRN, FIFO 3 */
```

/*----- NAKEV, NAKMSK bits -----*/

```
#define USB_NAK_I0       0x01 /*IN NAK, FIFO 0 */
#define USB_NAK_I1       0x02 /*IN NAK, FIFO 1 */
#define USB_NAK_I2       0x04 /*IN NAK, FIFO 2 */
#define USB_NAK_I3       0x08 /*IN NAK, FIFO 3 */
#define USB_NAK_O0       0x10 /*OUT NAK, FIFO 0 */
#define USB_NAK_O1       0x20 /*OUT NAK, FIFO 1 */
```

```

#define USB_NAK_O2          0x40 /*OUT NAK, FIFO 2 */
#define USB_NAK_O3          0x80 /*OUT NAK, FIFO 3 */

/*----- EPCX bits -----*/
#define USB_EP_EN           0x10 /*enables endpt. (1-6) */
#define USB_ISO             0x20 /*set for isochr. (1-6) */
#define USB_DEF             0x40 /*force def. adr (0 only) */
#define USB_STALL           0x80 /*force stall handshakes */

/*----- TXCx bits -----*/
#define USB_TX_EN           0x01 /*transmit enable */
#define USB_TX_LAST        0x02 /*last data in FIFO */
#define USB_TX_TOGL        0x04 /*specifies PID used */
#define USB_FLUSH          0x08 /*flushes all FIFO data */
#define USB_IGNIOS         0x80 /* */

/*----- TXSx bits -----*/
#define USB_TX_DONE        0x20 /*transmit done */
#define USB_ACK_STAT       0x40 /*ack status of xmission */

/*----- RXCx bits -----*/
#define USB_RX_EN          0x01 /*receive enable */
#define USB_IGN_OUT        0x02 /*ignore out tokens */
#define USB_IGN_SETUP      0x04 /*ignore setup tokens */

/*----- RXS0 bits -----*/
#define USB_RX_LAST        0x10 /*indicates RCOUNT valid */
#define USB_RX_TOGL        0x20 /*last pkt was DATA1 PID */
#define USB_SETUP_RX       0x40 /*setup packet received */

```

```
#define USB_RX_ERR 0x80 /*last packet had an error*/
```

```
/*
```

```
USB N9604 コントロール
```

```
(C)2002 C.I.M
```

```
*/
```

```
#include <stdio.h>
```

```
#include <string.h>
```

```
#include "usbn9602.h"
```

```
#include "h83048.h"
```

```
extern void PrintSCI(const char *fmt, ...); /* sci.c */
```

```
static void RegisterSet();
```

```
static void ResetUSB();
```

```
static void WakeupUSB();
```

```
static void rx0();
```

```
static void rx1();
```

```
static void tx0();
```

```
static void tx1();
```

```
static void nako0();
```

```
static void nako1();
```

```
static void naki0();
```

```
static void naki1();
```

```
static void clrfeature();
```



```

static void setfeature();

static void getdescriptor();

static void send_desc_sub(void *ptr,int size);

static void send_desc();

static void getstatus();

static void setconfiguration();

static void SetStallUSB(int adr);

static void ClearStallUSB(int adr);

static void FlushRXC(int no);

static void FlushTXC(int no);

static void TxToggle(int no);

static void WriteUSB(int adr,int data);

static unsigned char ReadUSB(int adr);

static int ReadUSBBurst(int adr,int adr2,char *buff,int cnt);

static int WriteUSBBurst(int adr,int adr2,char *buff,int cnt);

/*-----*/

static int SendTX1();

/*-----*/

int get_inbufflen(void);

void init_usbbuff(void);

int write_inbuff(char *p,int size);

int get_outbufflen(void);

int write_buff(char *p,int size);

int read_outbuff(char *p,int size);

/*-----*/

```

```

static unsigned char usbevent;          /* USB割り込みイベント */
static unsigned char SETADDR;          /* アドレスセット */
static unsigned char configno;        /* コンフィグレーションNO */
static unsigned char usbbuff[64];     /* 読み込みバッファ */
static unsigned char rx1buff[64];
static unsigned char rx2buff[64];
static unsigned char STALLD;          /* ECPの状態 */
static unsigned char DATA0_1;       /* USB_TXTGLのフラグ */
static char          senddesc;        /* 1 = ディスクリプタ送信中 */
static int           desc_size;       /* ディスクリプタ送信サイズ */
static char          *desc_ptr;      /* ディスクリプタポインタ */

static const unsigned char epctbl[8] =
{USB_EPC0,USB_EPC1,USB_EPC2,USB_EPC3,USB_EPC4,USB_EPC5,USB_EPC6,USB_EPC0};
static int txcreg[4] = {USB_TXC0,USB_TXC1,USB_TXC2,USB_TXC3};
static int rxcreg[4] = {USB_RXC0,USB_RXC1,USB_RXC2,USB_RXC3};

/*-----*/
/*-----*/

static const unsigned char dev_desc[] = {
    0x12,          /* length of this desc. */
    0x01,          /* デバイス・ディスクリプタ 1 */
    0x00,0x01,    /* USB Version 1.0 */
    0x00,          /* device class クラス無し */
    0x00,          /* device subclass */
    0x00,          /* device protocol */
    0x08,          /* EP0の最大パケットサイズ */

```

```

0xfe,0xff,          /* vendor ID サンプルなのでとりあえず */
0x10,0x00,         /* product ID */
0x01,0x00,         /* revision ID */
0x01,              /* index of manuf. string */
0x01,              /* index of prod. string */
0x02,              /* index of ser. # string */
0x01               /* bNumConfigurations */
};

/* コンフィグレーションディスクリプタ */
static const unsigned char cfg_desc[] = {
    0x09,           /* length of this desc. */
    0x02,           /* コンフィグレーション・ディスクリプタ */
    9+9+7*3,       /* インターフェース／エンドポイントディスクリプタ等の合計長 CFG + IF +
EP*3 */
    0x00,           /*
*/
    0x01,           /* インターフェース数 1 */
    0x01,           /* コンフィグレーションは 1 */
    0x00,           /* index of config. string */
    0xc0,           /* attr.: self powered D6=自己電源 */
    100,            /* ;max power (100 mA) */
};

/*static const unsigned char if_desc[] = {*/
    0x09,           /* length of this desc. */
    0x04,           /* INTERFACE descriptor */
    0x00,           /* interface number */
    0x00,           /* alternate setting */
    0x03,           /* # of (non 0) endpoints */
    0x00,           /* interface class */
};

```

```

0x00,          /* interface subclass          */
0x00,          /* interface protocol          */
0x03,          /* index of intf. string       */
/*},*/
/*static const unsigned char endp_desc[] = {*/
/* pipe 0 */
7,             /* length of this desc.        */
5,             /* ENDPOINT descriptor         */
0x81,          /* address (IN)                 */
0x02,          /* attributes (BULK)           */
0x40,0x00,     /* max packet size (64)        */
255,          /* interval (ms)                */
/* pipe 1 */
7,             /* length of this desc.        */
5,             /* ENDPOINT descriptor         */
0x02,          /* address (OUT)                */
0x02,          /* attributes (BULK)           */
0x40,0x00,     /* max packet size (64)        */
255,          /* interval (ms)                */

/* pipe 2 (not use) */
7,             /* length of this desc.        */
5,             /* ENDPOINT descriptor         */
0x83,          /* address (IN)                 */
0x02,          /* attributes (BULK)           */
0x40,0x00,     /* max packet size (64)        */
255,          /* interval (ms)                */
};

```

```
static const char lang_data[] = {
    4,3,9,4    /* LANGID (English)    */
};
```

```
static const char mfg_str[] = {
    18,3,
    'U',0,'S',0,'B',0,' ',0,'T',0,'E',0,'S',0,'T',0,
};
```

```
static const char nbr_str[] = {
    8,3,
    '1',0,'.',0,'0',0,
};
```

```
static const char int_str[] = {
    34,3,
    'U',0,'S',0,'B',0,' ',0,
    'T',0,'E',0,'S',0,'T',0,' ',0,'P',0,'R',0,'O',0,'G',0,'R',0,'A',0,'M',0,
};
```

```
static void wait(int c)
{
    int    i,j;
    for(j=0;j<c;j++)
    {
        for(i=0;i<0x682;i++)
```

```

    {
    }
}

/*-----*/

/* USB初期化 */
void InitUSB()
{
    init_usbbuff();

    ResetUSB();

    RegisterSet();

    WakeupUSB();

/*    PrintSCI(" REV = %d¥n",ReadUSB(USB_RID)); */

/*    PrintSCI(" CLOCK = %02X¥n",ReadUSB(USB_CCONF)); */

}

static void RegisterSet()
{
    STALLD = 0;

    senddesc = 0;

    DATA0_1 = 0;

    SETADDR = 0;

    WriteUSB(USB_FAR,USB_AD_EN+0);          /* アドレス初期化    */
    WriteUSB(USB_EPC0,USB_EP_EN);          /* EP0をイネーブル    */
    WriteUSB(USB_NAKMSK,USB_NAK_O0);       /* NAK MASKをセット*/
    WriteUSB(USB_TXMSK,USB_TXFIFO0+USB_TXFIFO1+USB_TXFIFO2+USB_TXFIFO3); /* TX MASK

```

をセツト*/

```
WriteUSB(USB_RXMSK,USB_RXFIFO0+USB_RXFIFO1+USB_RXFIFO2+USB_RXFIFO3); /* RX MASK
```

をセツト*/

```
WriteUSB(USB_ALTMSK,USB_SD3+USB_RESET_A); /* ALT MASKをセツト*/
```

```
WriteUSB(USB_MAMSK,USB_INTR_E+USB_RX_EV+USB_NAK+USB_TX_EV+USB_ALT); /*
```

MAIN MASKをセツト*/

```
FlushTXC(0);
```

```
FlushRXC(1);
```

```
FlushTXC(1);
```

```
WriteUSB(USB_TXC1,0);
```

```
WriteUSB(USB_RXC1,0);
```

```
WriteUSB(USB_RXC0,USB_RX_EN); /* RX0をイネ-ﾌﾞﾙ */
```

}

static void ResetUSB()

{

```
WriteUSB(USB_MCNTRL,USB_SRST+USB_VGE); /* USBリセツト 3.3V供給 */
```

```
wait(100); /* 100msec */
```

```
WriteUSB(USB_MCNTRL,USB_INT_L_P+USB_VGE); /* 割込みはactive low push pull */
```

```
WriteUSB(USB_CCONF,USB_CLKDIV-1); /* 48MHz/4 = 12MHz */
```

}

static void WakeupUSB()

{

```
WriteUSB(USB_NFSR,USB_OPR_ST); /* 動作可にする */
```

```
WriteUSB(USB_MCNTRL,USB_INT_L_P+USB_NAT+USB_VGE); /* USBのノ-ト`を動作可にする */
```

}

/* USBポートデータ表示 */

```
/* ※リードすると、ステータスが変わるレジスタもあるので注意 */
```

```
void DispUSBPort()
```

```
{
```

```
    int    i,j;
```

```
    PrintSCI("00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F¥n");
```

```
    for(j=0;j<4;j++)
```

```
    {
```

```
        for(i=0;i<16;i++)
```

```
            PrintSCI("%02X ",ReadUSB(i+j*16));
```

```
            PrintSCI("¥n");
```

```
    }
```

```
}
```

```
/*-----*/
```

```
/* USB割り込み */
```

```
#ifdef __GNUC__
```

```
void usb_int() __attribute__((interrupt_handler));
```

```
#endif
```

```
void usb_int()
```

```
{
```

```
    unsigned char  nakeevent,rxevent,txevent,altevent;
```

```
    char  reg;
```

```
    usbevent = ReadUSB(USB_MAEV);
```

```
    if( usbevent & USB_NAK )
```

```
    {
```



```
nakevent = ReadUSB(USB_NAKEV);
if( nakevent & USB_NAK_O0 )
{
    nako0();
}
if( nakevent & USB_NAK_O1 )
{
    nako1();
}
else if( nakevent & USB_NAK_I0 )
{
    naki0();
}
else if( nakevent & USB_NAK_I1 )
{
    naki1();
}
}
else if( usbevent & USB_RX_EV )
{
    rxevent = ReadUSB(USB_RXEV);
    if( rxevent & USB_RXFIFO0 )
    {
        rx0();
    }
    else if( rxevent & USB_RXFIFO1 )
    {
        rx1();
    }
}
```

```

}
else if( usbevent & USB_TX_EV )
{
    txevent = ReadUSB(USB_TXEV);
    if( txevent & USB_TXFIFO0 )
    {
        tx0();
    }
    else if( txevent & USB_TXFIFO1 )
    {
        tx1();
    }
}
else if( usbevent & USB_ALT )
{
    altevent = ReadUSB(USB_ALTEV);
    if( altevent & USB_RESET_A )
    {
        /* リセット */
        RegisterSet();
        WakeupUSB();
    }
    else if( altevent & USB_SD3 )
    {
        /* サスペンド */
        /* ALTMSKをセット */
        WriteUSB(USB_ALTMSK,USB_RESUME_A+USB_RESET_A);
        /* ノードをサスペンド */
        WriteUSB(USB_NFSR,USB_SUS_ST);
    }
}

```

```

}
else if( altevent & USB_RESUME_A )
{
    /* リジューム */
    /* ALTMSKをセット */
    WriteUSB(USB_ALTMSK,USB_SD3+USB_RESET_A);
    /* ノド を動作可能にする */
    WriteUSB(USB_NFSR,USB_OPR_ST);
}
}
}
}

```

```

/*=====
RXイベントの処理
=====*/

```

/* RX0(system) */

/*

リクエストコードの取得

0 byte

D7 ... データ方向 0=ホスト->デバイス, 1=デバイス->ホスト

D6-D5 ... タイプ

0:標準, 1:クラス, 2:ベンダ, 3:予約

D4-D0 ... 受信側

0:デバイス, 1:インターフェイス, 2:エンドポイント, 3:その他

1 byte

特定のリクエスト

2 byte

value

2 byte

index

2 byte

length

*/

static void rx0()

{

unsigned char rxstat;

rxstat = ReadUSB(USB_RXS0);

if(rxstat & USB_SETUP_RX)

{

ReadUSBBurst(USB_RXD0,USB_RXS0,(char*)usbbuff,8);

FlushRXC(0);

FlushTXC(0);

ClearStallUSB(USB_EPC0);

if((usbbuff[0] & 0x60) == 0)

{

/* 標準リクエスト */

switch(usbbuff[1])

{

case USB_CLEAR_FEATURE :

clrfeature();

break;

case USB_GET_CONFIGURATION :

WriteUSB(USB_TXD0,configno);

break;

case USB_GET_DESCRIPTOR :

getdescriptor();

```

        break;
case  USB_GET_STATUS :
    getstatus();
    break;
case  USB_GET_INTERFACE :
    WriteUSB(USB_TXD0,0);
    break;
case  USB_SET_ADDRESS :
    WriteUSB(USB_EPC0,USB_DEF);
    SETADDR = usbbuff[2];USB_AD_EN;
    WriteUSB(USB_FAR,SETADDR);
    break;
case  USB_SET_CONFIGURATION :
    setconfiguration();
    break;
case  USB_SET_FEATURE :
    setfeature();
    break;
case  USB_SET_INTERFACE :
    if( usbbuff[2] != 0 )
        SetStallUSB(USB_EPC0);
    break;
default :
    /* 未定義 */
    SetStallUSB(USB_EPC0);
    break;
    }
}
else if( (usbbuff[0] &0x60 ) == 0x20 )

```

```

{
    /* クラスリクエスト */
    SetStallUSB(USB_EPC0);
}
else if( (usbbuff[0] &0x60 ) == 0x40 )
{
    /* ベンダリクエスト */
    SetStallUSB(USB_EPC0);
}
else
{
    /* 未定義 */
    SetStallUSB(USB_EPC0);
}
/* SETUPなのでデータの有無に関係無くDATA1として送信 */
DATA0_1 |= 1;
TxToggle(0);
}
else
{
    if( senddesc )
    {
        senddesc = 0;
    }
    FlushTXC(0);
    WriteUSB(USB_RXC0,USB_RX_EN);
}
}

```

```

/*-----*/

/* RX1 受信 */

static void rx1()

{

    int          cnt;

    unsigned char  rxstat;

    rxstat = ReadUSB(USB_RXS1);          /* RX1ステータス取得 */

    /* SETUP,ERROR/パケットでない */

    if( !(rxstat & (USB_SETUP_RX|USB_RX_ERR)) )

    {

        /* ホストからデータの受信 */

        /* FIFOからデータ取得 */

        cnt = ReadUSBBurst(USB_RXD1,USB_RXS1,(char*)rx1buff,64);

        /* リングバッファに書き込み */

        write_inbuff((char*)rx1buff,cnt);

    }

    FlushRXC(1);          /* バッファをフラッシュ */

    WriteUSB(USB_RXC1,USB_RX_EN);    /* 受信可に設定          */

}

```

```

/*-----*/

```

```

/* RX2 受信(not use) */

```

```

static void rx2()

```

```

{

    unsigned char  rxstat;

    rxstat = ReadUSB(USB_RXS2);

}

```

```

/*=====

```

TXイベントの処理

```
=====*/  
/* TX0 送信終了 */  
static void tx0()  
{  
    unsigned char txstat;  
    txstat = ReadUSB(USB_TXS0);  
    if( (txstat & USB_ACK_STAT) && (txstat & USB_TX_DONE) )  
    {  
        /* ok */  
        FlushTXC(0);  
        if( senddesc )  
        {  
            send_desc();  
            TxToggle(0);          /* TX0送信可 */  
        }  
        else  
        {  
            WriteUSB(USB_RXC0,USB_RX_EN); /* RX0受信可 */  
        }  
    }  
    else  
    {  
        /* error ? */  
    }  
}  
  
/*-----*/
```



```
/* TX1送信終了 */
```

```
static void tx1()
```

```
{
```

```
    unsigned char  txstat;
```

```
    txstat = ReadUSB(USB_TXS1);
```

```
    if( (txstat & USB_ACK_STAT) && (txstat & USB_TX_DONE) )
```

```
    {
```

```
        /*
```

```
            送信終了後に次の送信データを送信するようにする
```

```
            送信データが無い場合、HOSTには0バイトで送る
```

```
        */
```

```
        SendTX1();
```

```
    }
```

```
    else
```

```
    {
```

```
        /*
```

```
            送ったサイズより小さい読み込みが行われた場合、こちらにくる場合がある
```

```
        */
```

```
    }
```

```
}
```

```
/*=====
```

```
                NAKイベントの処理
```

```
=====*/
```

```
/*
```

```
    NAKイベントは、エラーが発生した場合など再送信する場合処理する
```

```
    NAK0しかENABLEにしていないので、それ以外は処理無し
```

```
*/
```

```
static void nako0()
```

```

{
}

static void nako1()
{
}

static void naki0()
{
}

static void naki1()
{
}

/*=====
標準リクエストの処理
=====*/

/* 選択機器 */
static void clrfeature()
{
    if( (usbbuff[0] & 3) == 2 )
    {
        /* エンドポイントデータ */
        if((usbbuff[3]&7) != 0)
            ClearStallUSB(epctbl[usbbuff[3]&7]);
        STALLD &= -1 ^ (1<<(usbbuff[3]&7));
    }
}

static void setfeature()

```

```

{
    if( (usbbuff[0]&3) == 2 )      /* ENDPOINT */
    {
        /* エンドポイントデータ */
        if((usbbuff[3]&7) != 0 )
            SetStallUSB(epctbl[usbbuff[3]&7]);
        STALLD |= (1<<(usbbuff[3]&7));
    }
}

/*-----*/

/* ディスクリプタを返す */
static void getdescriptor()
{
    DATA0_1 &= 0xfe;
    switch( usbbuff[3] )
    {
        case  USB_DEVICE :
            send_desc_sub((void*)dev_desc,dev_desc[0]);
            break;
        case  USB_CONFIGURATION :
            {
                send_desc_sub((void *)cfg_desc,cfg_desc[2]);
                break;
            }
        case  USB_XSTRING :
            {
                switch( usbbuff[2] )
                {

```

```

        case 0 :
            send_desc_sub((void *)lang_data,lang_data[0]);
            break;
        case 1 :
            send_desc_sub((void *)mfg_str,mfg_str[0]);
            break;
        case 2 :
            send_desc_sub((void *)nbr_str,nbr_str[0]);
            break;
        case 3 :
            send_desc_sub((void *)int_str,int_str[0]);
            break;
    }
    break;
}
default :
{
}
}
}

```

```

static void send_desc_sub(void *ptr,int size)

```

```

{
    desc_size = (usbbuff[7] << 8) + usbbuff[6];
    /* 受信要求バッファ以上はデータを送らない */
    if( desc_size > size ) desc_size = size;
    desc_ptr = ptr;
    senddesc = 1; /* ディスクリプタ送信中フラグを立てる */
}

```

```

    send_desc();
}

static void send_desc()
{
    int    sz;

    sz = 8;

    if( desc_size == 0 ) return;
    if( desc_size <= 8 ) sz = desc_size;

    sz = WriteUSBurst(USB_TXD0,USB_TXS0,desc_ptr,sz);

    desc_size -= sz;

    desc_ptr += sz;

    if( desc_size == 0 ) senddesc = 0;
}

/*-----*/

/* ステータス */

static void getstatus()
{
    int    data,ep;

    data = usbbuff[0]&3;

    if( (data == 0) || (data == 1) )    /* DEVICE,INTERFACE */
    {
        WriteUSB(USB_TXD0,0);

        WriteUSB(USB_TXD0,0);
    }

    else if( data== 2)                /* エンドポイント */
    {

        ep = usbbuff[3]&7;

        /* epのSTALL状態を送信 */

```

```

    if( STALLD & (1<<ep) ) WriteUSB(USB_TXD0,1);
    else
        WriteUSB(USB_TXD0,0);
}
else
{
    WriteUSB(USB_TXD0,0);
}
}

/*-----*/
static void setconfiguration()
{
    configno = usbbuff[2];
    if( configno == 0 )
    {
        WriteUSB(USB_EPC1,0);          /* EPC1を使用不可 */
        WriteUSB(USB_EPC2,0);          /* EPC2を使用不可 */
        WriteUSB(USB_EPC3,0);          /* EPC3を使用不可 */
        WriteUSB(USB_EPC4,0);          /* EPC4を使用不可 */
        WriteUSB(USB_EPC5,0);          /* EPC5を使用不可 */
        WriteUSB(USB_EPC6,0);          /* EPC6を使用不可 */
    }
    else
    {
        STALLD = 0;
        FlushTXC(1);
        /* EPC1をアドレス1としてイネーブル */
        WriteUSB(USB_EPC1,USB_EP_EN+01);
        /* TX1送信可 */
    }
}

```

```
WriteUSB(USB_TXC1,USB_TX_EN|USB_TX_LAST);
```

```
FlushRXC(1);
```

```
/* EPC2をアドレス2としてイネ-ブル */
```

```
WriteUSB(USB_EPC2,USB_EP_EN+02);
```

```
/* RX1受信可 */
```

```
WriteUSB(USB_RXC1,USB_RX_EN);
```

```
/*
```

USB_TX_LASTを立てると、READ時ストールしなくなる。

ただし、データを送る前の最初のREADは0byteになります。

host側は複数のリクエストを同時発行できないので、

リクエストがストールするのはまずいの回避。

```
*/
```

```
}
```

```
}
```

```
/*=====
```

汎用ルーチン

```
=====*/
```

```
/* STALLのセットとクリア */
```

```
static void SetStallUSB(int adr)
```

```
{  
    WriteUSB(adr,ReadUSB(adr) | 0x80);
```

```
}
```

```
static void ClearStallUSB(int adr)
```

```
{  
    WriteUSB(adr,ReadUSB(adr)&0x7f);
```

```
}
```

```
/* FIFOのフラッシュ */
```

```
static void FlushRXC(int no)
```

```
{  
    WriteUSB(rxcreg[no],USB_FLUSH);  
}
```

```
static void FlushTXC(int no)
```

```
{  
    int    d;  
    d = ReadUSB(txcreg[no]);  
    d != USB_FLUSH;  
    WriteUSB(txcreg[no],d);  
}
```

```
/* 送信終了フラグセット */
```

```
/* reg = USB_TXC0~6 */
```

```
static void TxToggle(int no)
```

```
{  
    unsigned char d;  
    d = USB_TX_EN;  
    if( DATA0_1 & (1<<no) ) d != USB_TX_TOGL;  
    else                d &= ~USB_TX_TOGL;  
    d != USB_TX_LAST;  
    WriteUSB(txcreg[no],d);  
    DATA0_1 ^= (1<<no);  
}
```



```
/*-----*/
```

```
/* USBのアドレスから読み込み */
```

```
static unsigned char ReadUSB(int adr)
```

```
{  
    USB9602R = (unsigned char)adr;  
    return( USB9602D );  
}
```

```
/* USBのアドレスへ書き込み */
```

```
static void WriteUSB(int adr,int data)
```

```
{  
    USB9602R = (unsigned char)adr;  
    USB9602D = (unsigned char)data;  
}
```

```
/* バースト転送 */
```

```
static int ReadUSBBurst(int adr,int adr2,char *buff,int cnt)
```

```
{  
    int    i;  
    int    rcnt;  
    USB9602R = (unsigned char)adr;  
    for(rcnt=0,i=0;i<cnt;i++)  
    {  
        if( (ReadUSB(adr2) & 0xf) == 0 )    break;  
  
        USB9602R = (unsigned char)adr;  
        *buff = USB9602D;  
        buff++;  
        rcnt++;  
    }
```

```

    }
    return(rcnt);
}

static int WriteUSBurst(int adr,int adr2,char *buff,int cnt)
{
    int    i,scnt;
    for(scnt=0,i=0;i<cnt;i++)
    {
        if( (ReadUSB(adr2) & 0x1f) == 0 )    break;

        USB9602R = (unsigned char)adr;
        USB9602D = *buff;
        buff++;
        scnt++;
    }
    return(scnt);
}

```

```

/*=====

```

サンプルプログラム

```

=====*/

```

```

/* TX1送信ルーチン */

```

```

/*

```

USBから一方的に送信できないため、今回は、

TX1送信終了時にバッファ(outbuff)にあるデータを送信します。

よって、HOSTからは定期的にREADを行う。

それ以外のタイミングではEPC1のFIFOバッファのサイズに注意する。

```

*/

```

```

static int SendTX1()
{
    int    c,cnt,sz,i;

    cnt = 0;
    /* FIFOは最大64byte */
    sz = read_outbuff((char*)rx2buff,64);
    FlushTXC(1); /* 送信バッファをフラッシュ */
    if( sz != 0 )
    {
        /* バースト転送 */
        cnt = WriteUSBurst(USB_TXD1,USB_TXS1,(char*)rx2buff,sz);
    }
    TxToggle(1); /* 送信終了処理 */
    return( cnt ); /* 送信データ数を返す sz==cntのはず */
}

```

```

/*-----*/

```

```

/*

```

送受信バッファ

inbuffがHOSTから送られてきたデータのバッファ

outbuffがHOSTへ送るデータ用

このサンプルではリングバッファを超えた分は捨てられます。

今回は、256バイト確保しています。バッファがあふれないように

メイン側で処理してください。

```

*/

```

```

#define    USBBUFFLEN    256          /* バッファのサイズ */

```

```

static int    inpos,inlen;          /* 入力バッファ位置、サイズ */

```

```

static int    outpos,outlen;       /* 出力バッファ位置、サイズ */

```

```

static char  inbuff[USBBUFFLEN];      /* 入力リングバッファ */
static char  outbuff[USBBUFFLEN]; /* 出力リングバッファ */

/*-----*/
/*          バッファの初期化          */
/*-----*/

void init_usbbuff()
{
    inpos = inlen = 0;
    outpos = outlen = 0;
}

/*-----*/
/*          HOSTからの受信バッファへ書き込み          */
/*          char      *p      バッファポインタ          */
/*          int      size  書き込みサイズ          */
/*          戻り値          書き込んだサイズ          */
/*-----*/

int write_inbuff(char *p,int size)
{
    int      i;
    INTC.IER &= (-1^0x20);      /* IRQ5 Disable */
    for(i=0;i<size;i++)
    {
        if( inlen >= USBBUFFLEN )    break;
        inbuff[inpos] = *p;
        inpos = (inpos + 1)%USBBUFFLEN;
        inlen++;
    }
}

```

```

    p++;
}

INTC.IER |= 0x20;          /* IRQ5 Enable */

return(i);
}

/*-----*/

/*          送信バッファへ書き込み          */
/* char    *p      バッファポインタ          */
/* int     size   書き込みサイズ            */
/* 戻り値          書き込んだサイズ          */
/*-----*/

int write_buff(char *p,int size)
{
    int    i;

    INTC.IER &= (-1^0x20);    /* IRQ5 Disable */

    for(i=0;i<size;i++)
    {
        if( outlen >= USBBUFFLEN )    break;

        outbuff[outpos%USBBUFFLEN] = *p;
        outpos = (outpos + 1)%USBBUFFLEN;
        outlen++;

        p++;
    }

    INTC.IER |= 0x20;          /* IRQ5 Enable */

    return(i);
}

/*-----*/

/*          送信バッファから読み込み          */

```

```

/* char *p バッファポインタ */
/* int size バッファ最大サイズ */
/* 戻り値 読み込んだサイズ */
/*-----*/

```

```
int read_outbuff(char *p,int size)
```

```
{
```

```
int i;
```

```
INTC.IER &= (-1^0x20); /* IRQ5 Disable */
```

```
for(i=0;outlen>0;i++)
```

```
{
```

```
if( i >= size ) break;
```

```
p[i] = outbuff[ (USBUFFLEN+outpos-outlen)%USBUFFLEN ];
```

```
outlen--;
```

```
}
```

```
INTC.IER |= 0x20; /* IRQ5 Enable */
```

```
return(i);
```

```
}
```

```
/*-----*/
```

```
/* 受信バッファから読み込み */
```

```
/* char *p バッファポインタ */
```

```
/* int size バッファ最大サイズ */
```

```
/* 戻り値 読み込んだサイズ */
```

```
/*-----*/
```

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

```
{
```

```
int i;
```

```
INTC.IER &= (-1^0x20); /* IRQ5 Disable */
```

```
for(i=0;inlen>0;i++)
```

```
{
```

```

    if( i >= size ) break;

    p[i] = inbuff[ (USBBUFFLEN+inpos-inlen)%USBBUFFLEN ];
    inlen--;
}

INTC.IER |= 0x20;          /* IRQ5 Enable */

return(i);
}

/*-----*/
/*          受信バッファのサイズ取得          */
/*-----*/

int get_inbufflen()
{
    return( inlen%USBBUFFLEN );
}

/*-----*/
/*          送信バッファのサイズ取得          */
/*-----*/

int get_outbufflen()
{
    return( outlen%USBBUFFLEN );
}

```

```
/*
```

SCI処理

(C)2002 C.I.M

```
*/
```

```
#include <stdio.h>
```

```
#include <stdarg.h>
```

```
#include "h83048.h"
```

```
static char buff[80]; /* 文字列展開用バッファ(必要なら増やす) */
```

```
/*=====
```

SCI初期化

```
-----
```

```
9600bps パリティ無し STOP1
```

```
=====*/
```

```
void InitSCI()
```

```
{
```

```
int i;
```

```
SCI1.SCR = 0;
```

```
SCI1.SMR = 0; /* パリティ無し STOP1 */
```

```
SCI1.BRR = 80; /* 9600bps 3052 */
```

```
for(i=0;i<280;i++) {} /* wait */
```

```
SCI1.SCR = 0x30; /* TE = 1 , RE = 1 */
```

```
i = SCI1.SSR;
```

```
SCI1.SSR = 0x80; /* Clear Error Flag (TDRE=1) */
```



```
}
```

```
/*=====
```

SCI出力

```
-----
```

```
=====*/
```

```
void PutSCI(char c)
```

```
{  
    unsigned char i;  
    while( 1 )  
    {  
        i = SCI1.SSR;  
        if( i & 0x80 )    break;  
    }  
    SCI1.TDR = c;  
    SCI1.SSR = i&0x7f;  
}
```

```
/*=====
```

SCI入力

```
-----
```

データを受信するまで待ちつづけます。

```
=====*/
```

```
char GetSCI()
```

```
{  
    unsigned char i;  
    char c;  
    while( 1 )  
    {
```

```

    i = SCI1.SSR;
    if( i & 0x40 )    break;
}
c = SCI1.RDR;
SCI1.SSR = i&0xbf;
return(c);
}

```

```

/*=====

```

SCI入力データチェック

```

-----

```

SCIにデータがあるかチェックします。

戻り値 1 = データあり、0 = データなし

```

=====*/

```

```

int ScanSCI()

```

```

{
    if( SCI1.SSR & 0x40 ) return(1);
    return(0);
}

```

```

/*=====

```

SCI文字列出力

```

-----

```

書式はprintf()と同じです。バッファは80文字分しか取っていないので、

必要ならば、増やしてください。

```

=====*/

```

```

void PrintSCI(char *fmt, ...)

```

```

{
    int    i;

```

```
va_list arg;
va_start(arg, fmt);
*buff = '\0';
vsprintf(buff,fmt,arg);
va_end(arg);

for(i=0;;i++)
{
    if( buff[i] == 0 )    break;
    /* 改行コードは2バイトにして送信 */
    if( buff[i] == '\n' ) PutSCI('\r');
    PutSCI(buff[i]);
}
}
```

```
/*
```

```
    LCD处理
```

```
    (C)2002 C.I.M
```

```
*/
```

```
#include <stdio.h>
```

```
#include <stdarg.h>
```

```
#include "h83048.h"
```

```
void ClearLCD();
```

```
/* PortB (write) b0..3 = LCD(LED) out , bit4 = LCD RS , bit7 = LCD E */
```

```
#define LCD_RS 0x10
```

```
#define LCD_E 0x80
```

```
#define LCDMASK 0x60
```

```
static void wait(int c)
```

```
{
    int i,j;
    for(j=0;j<c;j++)
    {
        for(i=0;i<0x682;i++) {}
    }
}
```

```
/*=====
LCD BYTE 出力
=====*/
```

```
/*
 今回の基板は4bit接続なので、下位4bitのみ出力
*/
```

```
static void LCDOut8(short rs,short code)
{
    int    stat;
    int    pb;

    pb = PB.DR;          /* 現在のPBDを退避 */

    if( rs )    stat = (pb & LCDMASK) | LCD_RS;
    else        stat = (pb & LCDMASK);

    PB.DR = code | stat | LCD_E;
    PB.DR = code | stat;
    PB.DR = pb;          /* 元のPBDに復帰 */
    wait(4);
}
```

```
/*=====
LCD BYTE 出力(4bit)
=====*/
```

```
void LCDOut4(int rs,int code)
{
    int    stat;
    int    pb;
    char  lb,hb;
```

```
pb = PB.DR;          /* 現在のPBDを退避 */
```

```
if( rs )    stat = (pb & LCDMASK) | LCD_RS;
```

```
else        stat = (pb & LCDMASK);
```

```
hb = ((code>>4)&0xf) | stat;
```

```
lb = (code&0xf) | stat;
```

```
PB.DR = hb | LCD_E;
```

```
PB.DR = hb;
```

```
PB.DR = lb | LCD_E;
```

```
PB.DR = lb;
```

```
PB.DR = pb;          /* 元のPBDに復帰 */
```

```
wait(4);
```

```
}
```

```
/*=====
```

LCD コントロール

```
-----
```

LCD初期化、表示、クリア

```
=====*/
```

```
void InitLCD()
```

```
{
```

```
int    i;
```

```
wait(15);
```

```

for(i=0;i<3;i++)
{
    LCDOut8(0,0x3);
}
LCDOut8(0,0x2);

LCDOut4(0,0x28); /* bit4=8/4bit , bit3=1/2line , bit2=large/small */
LCDOut4(0,0x10); /* bit3=Display/Cursor , bit2=Right/Left */
LCDOut4(0,0x0e); /* bit2=display , bit1=cursor , bit0=blink */
LCDOut4(0,0x06);

LCDOut4(0,0x01); /* クリア */
LCDOut4(0,0x02); /* カーソルホーム */

}

/*=====
LCD クリア
-----
LCD初期化、表示、クリア
=====*/

void ClearLCD()
{
    LCDOut4(0,0x01); /* クリア */
    LCDOut4(0,0x02); /* カーソルホーム */
}

```

```
/*=====
```

LCDキャラクタ表示

```
-----
```

'\n','\r','\f'はLCDクリア処理を行います。

```
=====*/
```

```
void PutLCD(char c)
```

```
{  
    if( c == '\f' ) ClearLCD();  
    else if( c == '\n' ) ClearLCD();  
    else if( c == '\r' ) ClearLCD();  
    else LCDOut4(1,c);  
}
```

```
/*=====
```

LCDカーソル移動

```
-----
```

x = 0~15

y = 0,1

```
=====*/
```

```
void LocateLCD(int x,int y)
```

```
{  
    LCDOut4(0,0x80 + y*0x40 + x);  
}
```

```
/*=====
```

LCD文字列表示

```
-----
```

パラメータはprintf()と同じです。64文字を超えないように設定してく

ださい。'%f'はLCDクリア、'%n'は改行。

=====*/

```
void PrintLCD(char *fmt,...)
{
    int    i;
    static char  buff[64];
    va_list arg;
    va_start(arg, fmt);
    *buff = '\0';
    vsprintf(buff,fmt,arg);
    va_end(arg);
    for(i=0;;i++)
    {
        if( buff[i] == 0 ) break;
        else if( buff[i] == '%n' ) LocateLCD(0,1); /* 改行 */
        else if( buff[i] == '%r' ) LCDOut4(0,0x2); /* カーソルホーム */
        else if( buff[i] == '%f' ) ClearLCD(); /* LCDクリア */
        else LCDOut4(1,buff[i]); /* データ出力 */
    }
}
```

本文

```
/* C.h */

#define USE_THREAD
/* #define USE_BCC */
/* #define USE_LINUX */
#ifndef USE_LINUX
#define USE_BCC
#endif
#include <stdio.h> /* printf() */
#include <string.h> /* strcmp(), strlen() */
#include <stdlib.h> /* calloc(), free(), rand() */
#ifndef USE_BCC
#include "h83048.h"
#define SLEEP_PER_SEC 16000.0
#define NOTUSE_FILES
#else
#include <time.h> /* time_t, tm, time(), clock(), CLOCKS_PER_SEC */
#ifndef USE_LINUX
#include <termios.h> /* kbhit() */
#include <unistd.h> /* kbhit() */
#include <fcntl.h> /* kbhit() */
#else
#include <conio.h> /* kbhit(), getche() */
#endif
#define SLEEP_PER_SEC 100000000.0
#endif
#ifndef USE_LINUX
#define CLEAR system("clear")
#else
#define CLEAR system("cls")
#endif
#define OK 0
#define NG 1
#define ONE_MORE_TIME 2
#define ON 1
#define OFF 0
```

```
/* Panel.h */
```

```
#ifndef USE_BCC
```

```
/*=====
```

```
外部参照
```

```
=====*/
```

```
/* asmfile.src 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,

    ClsPnl,

    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);

#ifdef USE_LINUX

int kbhit(void);

#endif
```

```
/* Panel.c */
```

```
#include "C.h"
```

```
#include "Panel.h"
```

```
/* 画面クリア */
```

```
void Clear(void)
```

```
{
```

```
#ifndef USE_BCC
```

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

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

```
    PrintLCD(buff);
```

```
#else
```

```
    CLEAR;
```

```
#endif
```

```
}
```

```
/* 表示のための関数 */
```

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

```
{
```

```
#ifndef USE_BCC
```

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

```
#endif
```

```
    switch(mode)
```

```
{
```

```
    case ClsPnl:
```

```
#ifndef USE_BCC
```

```
        Clear();
```

```
if(strcmp(str, "\n\r0") == 0)
{
    sprintf(str, "%s", "\n\rf");
}
sprintf(buff,"%s", str);
PrintSCI("%s",buff);
PrintLCD(str);
#endif

break;

case Panel:

#ifdef USE_BCC

if(strcmp(str, "\n\r0") == 0)
{
    sprintf(str, "%s", "\n\rf");
}

sprintf(buff,"%s", str);
PrintSCI("%s",buff);
PrintLCD(str);

#else

printf("%s", str);

#endif

break;

case InputCommand:

#ifdef USE_BCC

printf("%s", str);

#endif

break;

case Monitor:

#ifdef USE_BCC
```

```

sprintf(buff,"%s", str);
PrintSCI("%s",buff);
write_buff(buff,strlen(buff)+1);
#else
    printf("%s", str);
#endif
break;
default:
break;
}
return;
}

#ifdef USE_LINUX
int kbhit(void)
{
    struct termios oldt, newt;

    int ch;

    int oldf;

    tcgetattr(STDIN_FILENO, &oldt);
    newt = oldt;
    newt.c_lflag &= ~(ICANON | ECHO);
    tcsetattr(STDIN_FILENO, TCSANOW, &newt);
    oldf = fcntl(STDIN_FILENO, F_GETFL, 0);
    fcntl(STDIN_FILENO, F_SETFL, oldf | O_NONBLOCK);

    ch = getchar();
}

```



```
tcsetattr(STDIN_FILENO, TCSANOW, &oldt);
```

```
fcntl(STDIN_FILENO, F_SETFL, oldf);
```

```
if (ch != EOF) {
```

```
    ungetc(ch, stdin);
```

```
    return 1;
```

```
}
```

```
return 0;
```

```
}
```

```
#endif
```

```
/* Timer.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
/* 疑似スレッド定義 */
```

```
#ifdef USE_THREAD
```

```
/* 疑似スレッドに使用する定数の宣言 */
```

```
#define INITCLOCKNO -1
```

```
#define STOPCLOCKNO -2
```

```
/* 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;
```

```

/* 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);

void SleepMSec(long ms); /* ミリ秒待ち関数 */

#ifdef USE_THREAD

void nextRun(Thread *This, long ms);

void countUpNextRun(Thread *This, long ms);

void Run(Thread *This); /* main.cで内容を定義します */

void Init(Thread *This); /* main.cで内容を定義します */

void Destroy(Thread *This); /* main.cで内容を定義します */

Thread *new_Thread(int id);

void delete_(Thread *This);

void Start(Thread *This);

void Stop(Thread *This);

int Thread_checkAllDelete(void);

int Thread_checkStayAnother(void);

Thread *Thread_getThread(int id);

Thread *Thread_Start(int id);

void Thread_Toggle(int id);

/* タイマ関数 */

void woviRun(void); /* Runを呼ぶタイミング */

void wovilnit(void); /* タイマ初期化関数 */

#endifdef USE_BCC

void InitITU(void); /* タイマ割り込み用 */

void InterruptITU0(void); /* タイマ割り込み用 */

#endif

void wovi(double threadPerSec); /* タイマ関数 */

```

```
void initWOVI(void); /* タイマ初期化関数 */  
#endif  
#ifdef USE_BCC  
void PrintCurrentTime(void); /* 現在日時表示 */  
#endif
```

```
/* Timer.c */
```

```
#include "C.h"
```

```
#include "Timer.h"
```

```
/* 時間を表す外部変数宣言 */
```

```
double woviClock;
```

```
/* 疑似スレッド定義 */
```

```
#ifdef USE_THREAD
```

```
/* wovi用疑似インスタンス宣言 */
```

```
Thread woviThreadFirst;
```

```
Thread woviThreadLast;
```

```
#endif
```

```
/* 時刻取得 */
```

```
double getClock(void)
```

```
{
```

```
    return woviClock;
```

```
}
```

```
/* ミリ秒待ち関数 */
```

```
void SleepMSec(long ms)
```

```
{
```

```
#ifndef USE_BCC
```

```
    double start;
```

```
    double set;
```

```
    double end;
```

```

start = getClock();
set = ((double) ms) / 1000;
end = start;
while(end < start + set)
{
    end = getClock();
}
#else
double cnt;
double set;
cnt = 0.0;
set = ((double) ms) / 1000;
while(cnt < set)
{
    cnt += 1.0 / SLEEP_PER_SEC;
}
#endif
return;
}

#ifdef USE_THREAD
/* スレッドのvoid Sleep(int ms)の代用 */
void nextRun(Thread *This, long ms)
{
    This->preClock = getClock();
    This->setClock = (((double) ms) / 1000);
    return;
}

```

```
/* スレッドのvoid Sleep(int ms)の代用 */  
void countUpNextRun(Thread *This, long ms)  
{  
    nextRun(This, ms);  
    This->count++;  
}
```

```
#ifndef USE_BCC
```

```
Thread th101;
```

```
Thread th102;
```

```
Thread th111;
```

```
Thread th112;
```

```
Thread th113;
```

```
Thread th114;
```

```
Thread th119;
```

```
Thread th120;
```

```
Thread th121;
```

```
Thread th122;
```

```
Thread th123;
```

```
Thread th130;
```

```
Thread th131;
```

```
Thread th141;
```

```
Thread th142;
```

```
Thread th143;
```

```
#endif
```

```
/* スレッドのコンストラクタの代用 */
```

```
Thread *new_Thread(int id)
```

```
{
```

```
Thread *List;

Thread *new_List;

List = &woviThreadFirst;

while(List->next->next != NULL)

{

    List = List->next;

}
```

```
#ifndef USE_BCC
```

```
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 == 19)  
{  
    new_List = &th119;  
}  
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 == 30)  
{  
    new_List = &th130;  
}  
else if(id == 31)
```

```

{
    new_List = &th131;
}
else if(id == 41)
{
    new_List = &th141;
}
else if(id == 42)
{
    new_List = &th142;
}
else if(id == 43)
{
    new_List = &th143;
}
#endif

#ifdef USE_BCC
    new_List = (Thread *)calloc(1, sizeof(Thread));
#endif

if(new_List == NULL)
{
    Printf(Panel, "¥n");
    Printf(Panel, "calloc 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_BCC
    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;  
    }  
}
```

```
int Thread_checkStayAnother(void)
```

```
{  
    Thread *checkthread = woviThreadFirst.next->next;  
    int i = 0;  
    while(checkthread != NULL)  
    {  
        checkthread = checkthread->next;  
        i = i + 1;  
    }  
    return i;  
}
```

```
}
```

```
Thread *Thread_getThread(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(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(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;
}

```

/ タイマ関数 */*

/ Runを呼ぶタイミング */*

void woviRun(void)

```

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

```

```

        List = next_List;
    }
    return;
}

/* タイマ初期化関数 */
/* 関数main の冒頭で、 */
/* スレッド構造体リストの両端を初期化します。 */
void wovilnit(void)
{
    woviThreadFirst.previous = NULL;
    woviThreadFirst.next = &woviThreadLast;
    woviThreadLast.previous = &woviThreadFirst;
    woviThreadLast.next = NULL;
    return;
}

#ifdef USE_BCC
/* タイマ割り込み用 */
/* 関数main の冒頭で、 */
/* タイマ割り込みの専用設定をして、 */
/* タイマ0割り込みを立ち上げます。 */
void InitITU(void)
{
    ITU.TSTR = 0x01; /* timer 0 enable */
    ITU.TSNC = 0;
    ITU.TMDR = 0x0;
    ITU.TFCR = 0x0;
    ITU.TOER = 0x0;
}

```



```

ITU.TOCR = 0xff;

ITU0.TCR = 0x00; /* 分周なし */

ITU0.TIOR = 0x88;

ITU0.TIER = 0x04; /* オーバーフロー割り込み許可 */

/* AKI-H8 3052F USB の演算速度は 25MHz なので、 */
/* 25Kカウント すると、 1ms です。 */

ITU0.TCNT = 0xffff - 25000; /* 1 msec interval */

ITU0.GRA = 0;

ITU0.GRB = 0;

}

/* タイマ割り込み用 */

/* 周りの関数が 関数main から呼び出されているのに、 */
/* この関数だけは、 asmfile.src の タイマ0割り込み から */
/* 直接呼び出されています。 */

void InterruptITU0(void)

{

    ITU0.TSR &= 0xfb;

    /* AKI-H8 3052F USB の演算速度は 25MHz なので、 */
    /* 25Kカウント すると、 1ms です。 */

    ITU0.TCNT = 0xffff - 25000; /* 1 msec interval */

    /* woviClock はシステムリセット時からの秒数時計です。 */

    woviClock += 0.001;

    return;

}

#endif

/* タイマ関数 */

```

```

void wovi(double threadPerSec)
{
#ifdef USE_BCC
    /* woviClock は秒数時計 */
#ifdef USE_LINUX
    /* threadPerSec で受け取る数値が1に近づく程、 */
    /* スピードが上がります。 */
    /* threadPerSec で受け取る数値が大きくなる程、 */
    /* スピードが下がります。 */
    /* タイマ割り込み を使用できない時に */
    /* threadPerSec を使用します。 */
    woviClock += 1.0 / threadPerSec;
#else
    /* もしくは、 <time.h> の clock() を使用します。 */
    woviClock = (double) (clock() / CLOCKS_PER_SEC);
#endif
#endif
    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)
{
    /* 関数main の冒頭で、 */
    /* 秒数時計woviClock を */
    /* 0.0秒 で初期化します。 */
    woviClock = 0.0;
    /* タイマ割り込み用 */

```

```

#ifndef USE_BCC

    /* タイマ0割り込み を立ち上げます。 */

    InitITU();

    /* asmfile.src の 割り込み許可ラベル を呼びます。 */

    EnableInterrupt();

#endif

    /* スレッド構造体リストの 両端 を初期化します。 */

    wovlnit();

    return;

}

#endif

```

```

#ifdef USE_BCC

/* 現在日時表示 */

void PrintCurrentTime(void)

{

    time_t timer;

    struct tm *t_st;

    /* 現在時刻の取得 */

    time(&timer);

    /* 現在時刻を構造体に変換 */

    t_st = localtime(&timer);

    printf("%d",t_st->tm_year+1900);

    if(t_st->tm_mon+1 < 10)

    {

        printf("0%d",t_st->tm_mon+1);
    }
}

```

```
}  
else  
{  
    printf("%d",t_st->tm_mon+1);  
}  
if(t_st->tm_mday < 10)  
{  
    printf("0%d",t_st->tm_mday);  
}  
else  
{  
    printf("%d",t_st->tm_mday);  
}  
printf(" ");  
if(t_st->tm_hour < 10)  
{  
    printf("0%d",t_st->tm_hour);  
}  
else  
{  
    printf("%d",t_st->tm_hour);  
}  
if(t_st->tm_min < 10)  
{  
    printf("0%d",t_st->tm_min);  
}  
else  
{  
    printf("%d",t_st->tm_min);  
}
```

```
}  
if(t_st->tm_sec < 10)  
{  
    printf("0%d",t_st->tm_sec);  
}  
else  
{  
    printf("%d",t_st->tm_sec);  
}  
  
return;  
}  
#endif
```

```
/* EV_Time.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
#ifndef Timer_h
```

```
#define Timer_h
```

```
#include "Timer.h"
```

```
#endif
```

```
#define OPENTIMEOUT 10
```

```
/*=====
```

```
時間を表す構造体
```

```
=====*/
```

```
struct EV_Time{
```

```
    double TimeTemp;
```

```
    double *p_TimeTemp;
```

```
    int Permit;
```

```
    int *p_Permit;
```

```
    int tmpTimeSafety;
```

```
    Thread *th;
```

```
};
```

```
/*=====
```

```
時間を表すプロトタイプ宣言
```

=====*/

```
void EV_Time(struct EV_Time *This, Thread *th);  
void SetCurrentTime(struct EV_Time *This);  
int GetCurrentTime(struct EV_Time *This);  
void WaitSecond(struct EV_Time *This, int num_Second);  
void SetPermit(struct EV_Time *This, int P);  
int GetPermit(struct EV_Time *This);  
void Checkfmove(int *p_check, int *p_fmove, int tmp);  
void Wait_ms(struct EV_Time *This, int num);
```

```
/* EV_Time.c */
```

```
#include "C.h"
```

```
#include "EV_Time.h"
```

```
/*=====
```

```
時間を表す関数
```

```
=====*/
```

```
void EV_Time(struct EV_Time *This, Thread *th)
```

```
{
```

```
    This->TimeTemp = 0;
```

```
    This->p_TimeTemp = &This->TimeTemp;
```

```
    SetCurrentTime(This);
```

```
    This->p_Permit = &This->Permit;
```

```
    This->Permit = OFF;
```

```
    This->tmpTimeSafety = 0;
```

```
    This->th = th;
```

```
    /* 戻る */
```

```
    return;
```

```
}
```

```
void SetCurrentTime(struct EV_Time *This)
```

```
{
```

```
    This->p_TimeTemp = &This->TimeTemp;
```

```
    *This->p_TimeTemp = getClock();
```

```
    /* 戻る */
```



```

    return;
}

int GetCurrentTime(struct EV_Time *This)
{
    This->p_TimeTemp = &This->TimeTemp;
    return (int) (getClock() - *This->p_TimeTemp);
}

void WaitSecond(struct EV_Time *This, int num_Second)
{
    nextRun(This->th, (num_Second * 1000));
    /* 戻る */
    return;
}

void SetPermit(struct EV_Time *This, int P)
{
    This->p_Permit = &This->Permit;
    if(P == ON) This->Permit = ON;
    else if(P == OFF) This->Permit = OFF;

    /* 戻る */
    return;
}

int GetPermit(struct EV_Time *This)
{
    This->p_Permit = &This->Permit;

```

```
    return This->Permit;
}

void Checkfmove(int *p_check, int *p_fmove, int tmp)
{
    if(*p_check != tmp){
        *p_fmove = OFF;
        *p_check = tmp;
    }

    /* 戻る */
    return;
}
```

```
void Wait_ms(struct EV_Time *This, int num){

    nextRun(This->th, num);

    /* 戻る */
    return;
}
```

```
/* EV_File.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
/*=====
```

```
   ファイルを表す構造体
```

```
=====*/
```

```
#ifdef NOTUSE_FILES
```

```
typedef struct tag_Handle_EV_Status
```

```
{
```

```
    char safety;
```

```
    char *p_limit;
```

```
    char limit[9];
```

```
    char motor;
```

```
    char command;
```

```
    char permitcommand;
```

```
    char permitturnopen;
```

```
}Handle_EV_Status;
```

```
typedef struct tag_EV_Status
```

```
{
```

```
    Handle_EV_Status *p_status;
```

```
}EV_Status;
```

```
#endif
```

```
/* ファイルストリーム */
```

```
struct EV_File
```

```
{
```

```
    FILE *fp;
```

```
};
```

```
/*=====
```

```
   ファイルを表すプロトタイプ宣言
```

```
=====*/
```

```
#ifndef NOTUSE_FILES
```

```
void new_EV_Status(EV_Status *This);
```

```
#endif
```

```
void EV_File(struct EV_File *This);
```

```
int Write(struct EV_File *This, char *filename, char ch);
```

```
int WriteString(struct EV_File *This, char *filename, char *str);
```

```
int Read(struct EV_File *This, char *filename, char *p_ch);
```

```
int ReadString(struct EV_File *This, char *filename, char *str, int strlength);
```

```
int PermitCommand_Read(struct EV_File *This, char *p_PermitCommand);
```

```
int PermitCommand_Write(struct EV_File *This, char PermitCommand);
```

```
int Command_Read(struct EV_File *This, char *p_Command);
```

```
int Command_Write(struct EV_File *This, char Command);
```

```
int PermitTurnOpen_Read(struct EV_File *This, char *p_PermitTurnOpen);
```

```
int PermitTurnOpen_Write(struct EV_File *This, char PermitTurnOpen);
```

```
void Motor_Write(struct EV_File *This, char Motor);
```

```
char Motor_Read(struct EV_File *This);
```

```
void Limit_Read(struct EV_File *This, char *str);
```

```
/* EV_File.c */
```

```
#include "C.h"
```

```
#include "EV_File.h"
```

```
/*=====
```

```
ファイル不使用時大域オブジェクト宣言
```

```
=====*/
```

```
#ifdef NOTUSE_FILES
```

```
Handle_EV_Status status;
```

```
#endif
```

```
/*=====
```

```
ファイルを表す関数
```

```
=====*/
```

```
#ifdef NOTUSE_FILES
```

```
void new_EV_Status(EV_Status *This)
```

```
{
```

```
    This->p_status = &status;
```

```
    status.safety = 'r';
```

```
    status.p_limit = &status.limit[0];
```

```
    strcpy(status.p_limit, "yynnyynn¥0");
```

```
    status.motor = 's';
```

```
    status.command = 'N';
```

```
    status.permitcommand = 'N';
```

```
    status.permitturnopen = 'N';
```

```
}
```

```
#endif
```

```

void EV_File(struct EV_File *This)
{
    /* 初期値 */
    This->fp = NULL;

    /* 戻る */
    return;
}

#ifdef NOTUSE_FILES

int Write(struct EV_File *This, char *filename, char ch)
{
    switch(filename[0])
    {
        case 'S':
            status.safety = ch;
            break;
        case 'M':
            status.motor = ch;
            break;
        case 'C':
            status.command = ch;
            break;
        case 'P':
            switch(filename[6])
            {
                case 'C':
                    status.permitcommand = ch;

```

```

        break;
    case 'T':
        status.permitturnopen = ch;
        break;
    default:
        break;
    }
    break;
default:
    break;
}
return OK;
}

#else

int Write(struct EV_File *This, char *filename, char ch)
{
    int Ret = OK;
    if((This->fp = fopen(filename, "w")) == NULL){
        Ret = NG;
    }
    else if(fputc((int) ch, This->fp) == ch){
        fclose(This->fp);
        Ret = OK;
    }
    else{
        fclose(This->fp);
        Ret = NG;
    }
    return Ret;
}

```

```

}

#endif

#ifdef NOTUSE_FILES

int WriteString(struct EV_File *This, char *filename, char *str)
{
    switch(filename[0])
    {
        case 'L':
            status.p_limit = &status.limit[0];
            strcpy(status.p_limit, str);
            break;
        default:
            break;
    }
    return OK;
}

#else

/* 文字列書き込み */

int WriteString(struct EV_File *This, char *filename, char *str)
{
    int Ret = OK;
    if((This->fp = fopen(filename, "w")) == NULL){
        Ret = NG;
    }

    /* ¥nは追記されない */
    else if(fputs(str, This->fp) >= 0){
        fclose(This->fp);
        /* 書き込み成功 */
    }
}

```



```

    Ret = OK;
}
else{
    fclose(This->fp);
    /* 書き込み失敗 */
    Ret = NG;
}
return Ret;
}
#endif

#ifdef NOTUSE_FILES
int Read(struct EV_File *This, char *filename, char *p_ch)
{
    switch(filename[0])
    {
    case 'S':
        *p_ch = status.safety;
        break;
    case 'M':
        *p_ch = status.motor;
        break;
    case 'C':
        *p_ch = status.command;
        break;
    case 'P':
        switch(filename[6])
        {

```

```
case 'C':
    *p_ch = status.permitcommand;
    break;
case 'T':
    *p_ch = status.permitturnopen;
    break;
default:
    break;
}
```

```
break;
```

```
default:
```

```
break;
```

```
}
```

```
return OK;
```

```
}
```

```
#else
```

```
int Read(struct EV_File *This, char *filename, char *p_ch)
```

```
{
```

```
int Ret = OK;
```

```
if((This->fp = fopen(filename, "r")) == NULL){
```

```
    Ret = NG;
```

```
}
```

```
else if((*p_ch = fgetc(This->fp)) == EOF){
```

```
    fclose(This->fp);
```

```
    Ret = ONE_MORE_TIME;
```

```
}
```

```
else if(*p_ch == '¥n'){
```

```
    fclose(This->fp);
```

```
    Ret = ONE_MORE_TIME;
```

```

}

else if(*p_ch == 'N'){
    fclose(This->fp);
    Ret = ONE_MORE_TIME;
}

else{
    fclose(This->fp);
    Ret = OK;
}

return Ret;
}

#endif

#ifdef NOTUSE_FILES

int ReadString(struct EV_File *This, char *filename, char *str, int strlength)
{
    switch(filename[0])
    {
        case 'L':
            status.p_limit = &status.limit[0];
            strcpy(str, status.p_limit);
            break;

        default:
            break;
    }

    return OK;
}

#else

int ReadString(struct EV_File *This, char *filename, char *str, int strlength)

```

```

{
    int Ret = OK;
    if((This->fp = fopen(filename, "r")) == NULL){
        Ret = NG;
    }
    else if(fgets(str, strlen, This->fp) == NULL){
        fclose(This->fp);
        Ret = ONE_MORE_TIME;
    }
    else if(str[0] == '\n'){
        fclose(This->fp);
        Ret = ONE_MORE_TIME;
    }
    else if(str[0] == 'N'){
        fclose(This->fp);
        Ret = ONE_MORE_TIME;
    }
    else{
        fclose(This->fp);
        Ret = OK;
    }
    return Ret;
}
#endif

```

```

int PermitCommand_Read(struct EV_File *This, char *p_PermitCommand)
{
    int Ret = OK;
    switch(Read(This, "PermitCommand.txt", p_PermitCommand)){

```

```
case NG:
    Printf(ClsPnl, "¥nReading Error");
    Ret = NG;
    break;
```

```
case ONE_MORE_TIME:
    Ret = ONE_MORE_TIME;
    break;
```

```
default:
    Ret = OK;
    break;
```

```
}
```

```
return Ret;
```

```
}
```

```
int PermitCommand_Write(struct EV_File *This, char PermitCommand)
```

```
{
```

```
int Ret = OK;
```

```
switch(Write(This, "PermitCommand.txt¥0", PermitCommand)){
```

```
case NG:
```

```
    Printf(ClsPnl, "¥nWriting Error");
```

```
    Ret = NG;
```

```
    break;
```

```
case OK:
```

```
    Ret = OK;
```

```
    break;
```

```
default:
```

```
    Ret = NG;
```

```
    break;
```

```

    }
    return Ret;
}

int Command_Read(struct EV_File *This, char *p_Command)
{
    int Ret = OK;
    switch(Read(This, "Command.txt¥0", p_Command)){
    case NG:
        Printf(ClsPnl, "¥nReading Error");
        Ret = NG;
        break;
    case ONE_MORE_TIME:
        Ret = ONE_MORE_TIME;
        break;
    default:
        Ret = OK;
        break;
    }
    return Ret;
}

```

```

int Command_Write(struct EV_File *This, char Command)
{
    int Ret = OK;
    switch(Write(This, "Command.txt¥0", Command)){
    case NG:
        Printf(ClsPnl, "¥nWriting Error");
        Ret = NG;
    }
}

```

```
        break;
case OK:
    Ret = OK;
    break;
default:
    Ret = NG;
    break;
}
return Ret;
}
```

```
int PermitTurnOpen_Read(struct EV_File *This, char *p_PermitTurnOpen)
{
    int Ret = OK;
    switch(Read(This, "PermitTurnOpen.txt¥0", p_PermitTurnOpen)){
    case NG:
        Printf(ClsPnl, "¥nReading Error");
        Ret = NG;
        break;
    case ONE_MORE_TIME:
        Ret = ONE_MORE_TIME;
        break;
    default:
        Ret = OK;
        break;
    }
    return Ret;
}
```

```
int PermitTurnOpen_Write(struct EV_File *This, char PermitTurnOpen)
{
    int Ret = OK;
    switch(Write(This, "PermitTurnOpen.txt¥0", PermitTurnOpen)){
    case NG:
        Printf(ClsPnl, "¥nWriting Error");
        Ret = NG;
        break;
    case OK:
        Ret = OK;
        break;
    default:
        Ret = NG;
        break;
    }
    return Ret;
}
```

```
void Motor_Write(struct EV_File *This, char Motor)
{
    switch(Write(This, "Motor.txt¥0", Motor)){
    case NG:
        Printf(ClsPnl, "¥nWriting Error");
        break;
    case OK:
        return;
        break;
    default:
        break;
    }
```



```

}

/* 戻る */
return;
}

char Motor_Read(struct EV_File *This)
{
    char ch;
    char *p_ch;
    ch = '\0';
    p_ch = &ch;

    switch(Read(This, "Motor.txt\0", p_ch)){
        case NG:
            break;
        case ONE_MORE_TIME:
            return '\0';
            break;
        case OK:
            return ch;
            break;
        default:
            break;
    }
    return '\0';
}

```

```
void Limit_Read(struct EV_File *This, char *str)
{
    switch(ReadString(This, "Limit.txt¥0", str, 9)){
    case NG:
        Printf(ClsPnl, "¥nReading Error");
        break;
    case ONE_MORE_TIME:
        return;
        break;
    default:
        return;
        break;
    }

    /* 戻る */
    return;
}
```

```
/* EV_UpDown.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
#ifndef Timer_h
```

```
#define Timer_h
```

```
#include "Timer.h"
```

```
#endif
```

```
#ifndef EV_Time_h
```

```
#define EV_Time_h
```

```
#include "EV_Time.h"
```

```
#endif
```

```
#ifndef EV_File_h
```

```
#define EV_File_h
```

```
#include "EV_File.h"
```

```
#endif
```

```
/*=====
```

```
 上昇下降を表す構造体
```

```
=====*/
```

```
struct Position
```

```
{
```

```
    int m_UNSL;
```

```
int m_UNST;

int m_UPSL;

int m_UPST;

/* 下降減速位置 */

int *p_UnderSlow;

/* 下降停止位置 */

int *p_UnderStop;

/* 上昇減速位置 */

int *p_UpperSlow;

/* 上昇停止位置 */

int *p_UpperStop;

/* Sleep用 */

int fstop;

int *p_fstop;

int fmove;

int *p_fmove;

};
```

```
/* 上昇 */
```

```
struct UpMotor
```

```
{

    struct EV_File SF;

    struct EV_File MF;

};
```

```
/* 下降 */
```

```
struct DownMotor
```

```
{

    struct EV_File SF;
```

```

    struct EV_File MF;
};

/* エレベーターの位置仮想ログ */
struct WaitPositionChangeLog
{
    struct EV_File LF;
    char strLimit[9];
    char *p_strLimit;
    /* Sleep用 */
    int tmp;
};

/*=====
  上昇下降を表すプロトタイプ宣言
=====*/

void Position(struct Position *This);
/* 上昇 */
void UpMotor(struct UpMotor *This);
void OnUpMotor(struct UpMotor *This, struct Position *P, char *p_Safety);
/* 下降 */
void DownMotor(struct DownMotor *This);
void OnDownMotor(struct DownMotor *This, struct Position *P, char *p_Safety);
/* 経過時間 */
void WaitPositionChangeLog(struct WaitPositionChangeLog *This);
void OnInitWaitPositionChangeLog(struct WaitPositionChangeLog *This, struct Position *P);
void OnWaitUpPositionChangeLog(struct WaitPositionChangeLog *This, struct Position *P);
void OnWaitDownPositionChangeLog(struct WaitPositionChangeLog *This, struct Position *P);
/* 上昇 */

```

```
void Up(struct Position *P, struct UpMotor UPMT, struct WaitPositionChangeLog WPCL, char  
*p_Safety);
```

```
/* 下降 */
```

```
void Down(struct Position *P, struct DownMotor DNMT, struct WaitPositionChangeLog WPCL, char  
*p_Safety);
```

```
/* EV_UpDown.c */
```

```
#include "C.h"
```

```
#include "EV_UpDown.h"
```

```
/*=====
```

```
上昇下降を表す関数
```

```
=====*/
```

```
/*
```

```
 * Position
```

```
*/
```

```
void Position(struct Position *This)
```

```
{
```

```
    /* 初期値 */
```

```
    This->m_UNSL = OFF;
```

```
    This->m_UNST = OFF;
```

```
    This->m_UPSL = OFF;
```

```
    This->m_UPST = OFF;
```

```
    This->p_UnderSlow = &This->m_UNSL;
```

```
    This->p_UnderStop = &This->m_UNST;
```

```
    This->p_UpperSlow = &This->m_UPSL;
```

```
    This->p_UpperStop = &This->m_UPST;
```

```
    /* Sleep用 */
```

```
    This->fstop = OFF;
```

```
    This->p_fstop = &This->fstop;
```

```
    This->fmove = OFF;
```

```
    This->p_fmove = &This->fmove;
```

```

    /* 戻る */
    return;
}

/*
 * UpMotor
 */
void UpMotor(struct UpMotor *This)
{
    EV_File(&This->SF);
    EV_File(&This->MF);

    /* 戻る */
    return;
}

/*
 * OnUpMotor
 */
/* 上昇 */
void OnUpMotor(struct UpMotor *This, struct Position *P, char *p_Safety)
{
    if(*P->p_UpperStop == ON){
        /* Sleep用 */
        if(*P->p_fstop == OFF){
            *P->p_fstop = ON;
            /* 現在実行中の命令を外部に報告 */
            Motor_Write(&This->MF, 's');
            Printf(ClsPnl, "STOP");
        }
    }
}

```



```

}

if(*p_Safety == 'Y'){
    *p_Safety = 'r';
    Write(&This->SF, "Safety.txt¥0", 'r');
}

}

else if(*P->p_UpperSlow == ON){
    /* Sleep用 */
    *P->p_fstop = OFF;
    if(*P->p_fmove == OFF){
        *P->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'u');
        Printf(ClsPnl, "UP");
    }
}

else if(*p_Safety == 'Y'){
    Motor_Write(&This->MF, 'j');
    *p_Safety = 'r';
    Write(&This->SF, "Safety.txt¥0", 'r');
}

}

else if(*P->p_UnderSlow == OFF){
    /* Sleep用 */
    *P->p_fstop = OFF;
    if(*P->p_fmove == OFF){
        *P->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'U');
        Printf(ClsPnl, "UP Speedy");
    }
}

```

```

}

else if(*p_Safety == 'Y'){
    Motor_Write(&This->MF, 'j');
    *p_Safety = 'r';
    Write(&This->SF, "Safety.txt¥0", 'r');
}

}

else if(*P->p_UnderStop == OFF){
    /* Sleep用 */
    *P->p_fstop = OFF;
    if(*P->p_fmove == OFF){
        *P->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'u');
        Printf(ClsPnl, "UP");
    }
    else if(*p_Safety == 'Y'){
        Motor_Write(&This->MF, 'j');
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}

else if(*P->p_UnderStop == ON){
    /* Sleep用 */
    *P->p_fstop = OFF;
    if(*P->p_fmove == OFF){
        *P->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'j');

```

```
        Printf(ClsPnl, "UP Start");
    }
    if(*p_Safety == 'Y'){
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* DownMotor
```

```
*/
```

```
void DownMotor(struct DownMotor *This)
```

```
{
```

```
    EV_File(&This->SF);
```

```
    EV_File(&This->MF);
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* OnDownMotor
```

```
*/
```

```
/* 下降 */
```

```
void OnDownMotor(struct DownMotor *This, struct Position *P, char *p_Safety)
```

```
{  
    if(*P->p_UnderStop == ON){  
        /* Sleep用 */  
        if(*P->p_fstop == OFF){  
            *P->p_fstop = ON;  
            /* 現在実行中の命令を外部に報告 */  
            Motor_Write(&This->MF, 's');  
            Printf(ClsPnl, "STOP");  
        }  
        if(*p_Safety == 'Y'){  
            *p_Safety = 'r';  
            Write(&This->SF, "Safety.txt¥0", 'r');  
        }  
    }  
    else if(*P->p_UnderSlow == ON){  
        /* Sleep用 */  
        *P->p_fstop = OFF;  
        if(*P->p_fmove == OFF){  
            *P->p_fmove = ON;  
            /* 現在実行中の命令を外部に報告 */  
            Motor_Write(&This->MF, 'd');  
            Printf(ClsPnl, "DOWN");  
        }  
        else if(*p_Safety == 'Y'){  
            Motor_Write(&This->MF, 'k');  
            *p_Safety = 'r';  
            Write(&This->SF, "Safety.txt¥0", 'r');  
        }  
    }  
}
```

```

}
else if(*P->p_UpperSlow == OFF){
    /* Sleep用 */
    *P->p_fstop = OFF;
    if(*P->p_fmove == OFF){
        *P->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'D');
        Printf(ClsPnl, "DOWN Speedy");
    }
    else if(*p_Safety == 'Y'){
        Motor_Write(&This->MF, 'k');
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}
else if(*P->p_UpperStop == OFF){
    /* Sleep用 */
    *P->p_fstop = OFF;
    if(*P->p_fmove == OFF){
        *P->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'd');
        Printf(ClsPnl, "DOWN");
    }
    else if(*p_Safety == 'Y'){
        Motor_Write(&This->MF, 'k');
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}

```

```

    }
}
else if(*P->p_UpperStop == ON){
    /* Sleep用 */
    *P->p_fstop = OFF;
    if(*P->p_fmove == OFF){
        *P->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'k');
        Printf(ClsPnl, "DOWN Start");
    }
    if(*p_Safety == 'Y'){
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}
}

/* 戻る */
return;
}

/*
 * WaitPositionChangeLog
 */
/* エレベーターの位置仮想ログ */
void WaitPositionChangeLog(struct WaitPositionChangeLog *This)
{
    This->p_strLimit = &This->strLimit[0];
}

```

```

    /* 戻る */
    return;
}

/*
 * OnInitWaitPositionChangeLog
 */
/* エレベーターの位置仮想ログ */
void OnInitWaitPositionChangeLog(struct WaitPositionChangeLog *This, struct Position *P)
{
    /* センサ初期値 */
    /* リミットスイッチの読み込み */
    This->p_strLimit = &This->strLimit[0];
    Limit_Read(&This->LF, This->p_strLimit);
    This->tmp = ((This->strLimit[0] == 'y') ? ON : OFF);
    Checkfmove(P->p_UnderStop, P->p_fmove, This->tmp);
    This->tmp = ((This->strLimit[1] == 'y') ? ON : OFF);
    Checkfmove(P->p_UnderSlow, P->p_fmove, This->tmp);
    This->tmp = ((This->strLimit[2] == 'y') ? ON : OFF);
    Checkfmove(P->p_UpperSlow, P->p_fmove, This->tmp);
    This->tmp = ((This->strLimit[3] == 'y') ? ON : OFF);
    Checkfmove(P->p_UpperStop, P->p_fmove, This->tmp);

    /* 戻る */
    return;
}

/*

```

```
* OnWaitUpPositionChangeLog
```

```
*/
```

```
/* エレベーターの位置仮想ログ */
```

```
void OnWaitUpPositionChangeLog(struct WaitPositionChangeLog *This, struct Position *P)
```

```
{
```

```
    /* リミットスイッチの読み込み */
```

```
    This->p_strLimit = &This->strLimit[0];
```

```
    Limit_Read(&This->LF, This->p_strLimit);
```

```
    This->tmp = (This->strLimit[0] == 'y') ? ON : OFF;
```

```
    Checkfmove(P->p_UnderStop, P->p_fmove, This->tmp);
```

```
    This->tmp = (This->strLimit[1] == 'y') ? ON : OFF;
```

```
    Checkfmove(P->p_UnderSlow, P->p_fmove, This->tmp);
```

```
    This->tmp = (This->strLimit[2] == 'y') ? ON : OFF;
```

```
    Checkfmove(P->p_UpperSlow, P->p_fmove, This->tmp);
```

```
    This->tmp = (This->strLimit[3] == 'y') ? ON : OFF;
```

```
    Checkfmove(P->p_UpperStop, P->p_fmove, This->tmp);
```

```
    /* 戻る */
```

```
    return;
```

```
}
```

```
/*
```

```
* OnWaitDownPositionChangeLog
```

```
*/
```

```
/* エレベーターの位置仮想ログ */
```

```
void OnWaitDownPositionChangeLog(struct WaitPositionChangeLog *This, struct Position *P)
```

```
{
```

```
    /* リミットスイッチの読み込み */
```

```
    This->p_strLimit = &This->strLimit[0];
```



```
Limit_Read(&This->LF, This->p_strLimit);
This->tmp = (This->strLimit[0] == 'y') ? ON : OFF;
Checkfmove(P->p_UnderStop, P->p_fmove, This->tmp);
This->tmp = (This->strLimit[1] == 'y') ? ON : OFF;
Checkfmove(P->p_UnderSlow, P->p_fmove, This->tmp);
This->tmp = (This->strLimit[2] == 'y') ? ON : OFF;
Checkfmove(P->p_UpperSlow, P->p_fmove, This->tmp);
This->tmp = (This->strLimit[3] == 'y') ? ON : OFF;
Checkfmove(P->p_UpperStop, P->p_fmove, This->tmp);
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* Up
```

```
*/
```

```
/* 上昇 */
```

```
void Up(struct Position *P, struct UpMotor UPMT, struct WaitPositionChangeLog WPCL, char
*p_Safety)
```

```
{
```

```
/* 到着まで */
```

```
if(*P->p_UpperStop == OFF){
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitUpPositionChangeLog(&WPCL, P);
```

```
/* 上昇 */
```

```
OnUpMotor(&UPMT, P, p_Safety);
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitUpPositionChangeLog(&WPCL, P);
```

```
}
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* Down
```

```
*/
```

```
/* 下降 */
```

```
void Down(struct Position *P, struct DownMotor DNMT, struct WaitPositionChangeLog WPCL, char  
*p_Safety)
```

```
{
```

```
/* 到着まで */
```

```
if(*P->p_UnderStop == OFF){
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitDownPositionChangeLog(&WPCL, P);
```

```
/* 下降 */
```

```
OnDownMotor(&DNMT, P, p_Safety);
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitDownPositionChangeLog(&WPCL, P);
```

```
}
```

```
/* 戻る */
```

```
return;
```

}

```
/* EV_OpenClose.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
#ifndef Timer_h
```

```
#define Timer_h
```

```
#include "Timer.h"
```

```
#endif
```

```
#ifndef EV_Time_h
```

```
#define EV_Time_h
```

```
#include "EV_Time.h"
```

```
#endif
```

```
#ifndef EV_File_h
```

```
#define EV_File_h
```

```
#include "EV_File.h"
```

```
#endif
```

```
#ifndef EV_UpDown_h
```

```
#define EV_UpDown_h
```

```
#include "EV_UpDown.h"
```

```
#endif
```

```
/*=====
```

開閉を表す構造体

=====*/

struct Door

```
{  
    int m_CLSL;  
    int m_CLST;  
    int m_OPSL;  
    int m_OPST;  
    /* 閉減速位置 */  
    int *p_CloserSlow;  
    /* 閉停止位置 */  
    int *p_CloserStop;  
    /* 開減速位置 */  
    int *p_OpennerSlow;  
    /* 開停止位置 */  
    int *p_OpennerStop;  
    /* Sleep用 */  
    int fstop;  
    int *p_fstop;  
    int fmove;  
    int *p_fmove;  
};
```

/* 開 */

struct OpenMotor

```
{  
    struct EV_File SF;  
    struct EV_File MF;  
};
```

```

/* 閉 */
struct CloseMotor
{
    struct EV_File SF;
    struct EV_File MF;
};

/* エレベーターの位置仮想ログ */
struct WaitDoorChangeLog
{
    struct EV_File TOF;
    char chTurnOpen;
    char *p_chTurnOpen;
    struct EV_File LF;
    char strLimit[9];
    char *p_strLimit;
    /* Sleep用 */
    int tmp;
};

/*=====
  開閉を表すプロトタイプ宣言
  =====*/

void Door(struct Door *This);

/* 開 */
void OpenMotor(struct OpenMotor *This);
void OnOpenMotor(struct OpenMotor *This, struct Door *DR, char *p_Safety);

/* 閉 */

```

```
void CloseMotor(struct CloseMotor *This);

void OnCloseMotor(struct CloseMotor *This, struct Door *DR, char *p_Safety);

/* 經過時間 */

void WaitDoorChangeLog(struct WaitDoorChangeLog *This);

void OnInitWaitDoorChangeLog(struct WaitDoorChangeLog *This, struct Door *DR);

void OnWaitOpenDoorChangeLog(struct WaitDoorChangeLog *This, struct Door *DR);

void OnWaitCloseDoorChangeLog(struct WaitDoorChangeLog *This, struct Door *DR);

/* 開 */

void Open(struct Door *DR, struct OpenMotor OPMT, struct WaitDoorChangeLog WDCL, char
*p_Safety);

/* 閉 */

void Close(struct Door *DR, struct CloseMotor CLMT, struct WaitDoorChangeLog WDCL, char
*p_Safety);
```

```
/* EV_OpenClose.c */
```

```
#include "C.h"
```

```
#include "EV_OpenClose.h"
```

```
/*=====
```

```
  開閉を表す関数
```

```
=====*/
```

```
/*
```

```
 * Door
```

```
*/
```

```
void Door(struct Door *This)
```

```
{
```

```
    /* 初期値 */
```

```
    This->m_CLSL = OFF;
```

```
    This->m_CLST = OFF;
```

```
    This->m_OPST = OFF;
```

```
    This->m_OPST = OFF;
```

```
    This->p_CloserSlow = &This->m_CLSL;
```

```
    This->p_CloserStop = &This->m_CLST;
```

```
    This->p_OpennerSlow = &This->m_OPST;
```

```
    This->p_OpennerStop = &This->m_OPST;
```

```
    /* Sleep用 */
```

```
    This->fstop = OFF;
```

```
    This->p_fstop = &This->fstop;
```

```
    This->fmove = OFF;
```

```
    This->p_fmove = &This->fmove;
```



```

    /* 戻る */
    return;
}

/*
 * OpenMotor
 */
void OpenMotor(struct OpenMotor *This)
{
    EV_File(&This->SF);
    EV_File(&This->MF);

    /* 戻る */
    return;
}

/*
 * OnOpenMotor
 */
/* 開 */
void OnOpenMotor(struct OpenMotor *This, struct Door *DR, char *p_Safety)
{
    if(*DR->p_OpennerStop == ON){
        /* Sleep用 */
        if(*DR->p_fstop == OFF){
            *DR->p_fstop = ON;
            /* 現在実行中の命令を外部に報告 */
            Motor_Write(&This->MF, 's');
            Printf(ClsPnl, "STOP");
        }
    }
}

```

```

}

if(*p_Safety == 'Y'){
    *p_Safety = 'r';
    Write(&This->SF, "Safety.txt¥0", 'r');
}

}

else if(*DR->p_OpennerSlow == ON){
    /* Sleep用 */
    *DR->p_fstop = OFF;
    if(*DR->p_fmmove == OFF){
        *DR->p_fmmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'o');
        Printf(ClsPnl, "OPEN");
    }
    else if(*p_Safety == 'Y'){
        Motor_Write(&This->MF, 'h');
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}

}

else if(*DR->p_CloserSlow == OFF){
    /* Sleep用 */
    *DR->p_fstop = OFF;
    if(*DR->p_fmmove == OFF){
        *DR->p_fmmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'O');
        Printf(ClsPnl, "OPEN Speedy");
    }
}

```

```

}

else if(*p_Safety == 'Y'){
    Motor_Write(&This->MF, 'h');
    *p_Safety = 'r';
    Write(&This->SF, "Safety.txt¥0", 'r');
}

}

else if(*DR->p_CloserStop == OFF){
    /* Sleep用 */
    *DR->p_fstop = OFF;
    if(*DR->p_fmove == OFF){
        *DR->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'o');
        Printf(ClsPnl, "OPEN");
    }
    else if(*p_Safety == 'Y'){
        Motor_Write(&This->MF, 'h');
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}

else if(*DR->p_CloserStop == ON){
    /* Sleep用 */
    *DR->p_fstop = OFF;
    if(*DR->p_fmove == OFF){
        *DR->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'h');

```

```
        Printf(ClsPnl, "OPEN Start");
    }
    if(*p_Safety == 'Y'){
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* CloseMotor
```

```
*/
```

```
void CloseMotor(struct CloseMotor *This)
```

```
{
```

```
    EV_File(&This->SF);
```

```
    EV_File(&This->MF);
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* OnCloseMotor
```

```
*/
```

```
/* 閉 */
```

```

void OnCloseMotor(struct CloseMotor *This, struct Door *DR, char *p_Safety)
{
    if(*DR->p_CloserStop == ON){
        /* Sleep用 */
        if(*DR->p_fstop == OFF){
            *DR->p_fstop = ON;
            /* 現在実行中の命令を外部に報告 */
            Motor_Write(&This->MF, 's');
            Printf(ClsPnl, "STOP");
        }
        if(*p_Safety == 'Y'){
            *p_Safety = 'r';
            Write(&This->SF, "Safety.txt¥0", 'r');
        }
    }
    else if(*DR->p_CloserSlow == ON){
        /* Sleep用 */
        *DR->p_fstop = OFF;
        if(*DR->p_fmmove == OFF){
            *DR->p_fmmove = ON;
            /* 現在実行中の命令を外部に報告 */
            Motor_Write(&This->MF, 'c');
            Printf(ClsPnl, "CLOSE");
        }
        else if(*p_Safety == 'Y'){
            Motor_Write(&This->MF, 't');
            *p_Safety = 'r';
            Write(&This->SF, "Safety.txt¥0", 'r');
        }
    }
}

```

```

}
else if(*DR->p_OpennerSlow == OFF){
    /* Sleep用 */
    *DR->p_fstop = OFF;
    if(*DR->p_fmove == OFF){
        *DR->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'C');
        Printf(ClsPnl, "CLOSE Speedy");
    }
    else if(*p_Safety == 'Y'){
        Motor_Write(&This->MF, 't');
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}
else if(*DR->p_OpennerStop == OFF){
    /* Sleep用 */
    *DR->p_fstop = OFF;
    if(*DR->p_fmove == OFF){
        *DR->p_fmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 'c');
        Printf(ClsPnl, "CLOSE");
    }
    else if(*p_Safety == 'Y'){
        Motor_Write(&This->MF, 't');
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}

```

```

    }
}
else if(*DR->p_OpennerStop == ON){
    /* Sleep用 */
    *DR->p_fstop = OFF;
    if(*DR->p_fmmove == OFF){
        *DR->p_fmmove = ON;
        /* 現在実行中の命令を外部に報告 */
        Motor_Write(&This->MF, 't');
        Printf(ClsPnl, "CLOSE Start");
    }
    if(*p_Safety == 'Y'){
        *p_Safety = 'r';
        Write(&This->SF, "Safety.txt¥0", 'r');
    }
}
}

/* 戻る */
return;
}

/*
 * WaitDoorChangeLog
 */
/* エレベーターの位置仮想ログ */
void WaitDoorChangeLog(struct WaitDoorChangeLog *This)
{
    This->p_chTurnOpen = &This->chTurnOpen;
    This->p_strLimit = &This->strLimit[0];
}

```

```

    /* 戻る */
    return;
}

/*
 * OnInitWaitDoorChangeLog
 */
/* エレベーターの位置仮想ログ */
void OnInitWaitDoorChangeLog(struct WaitDoorChangeLog *This, struct Door *DR)
{
    /* センサ初期値 */
    /* リミットスイッチの読み込み */
    This->p_strLimit = &This->strLimit[0];
    Limit_Read(&This->LF, This->p_strLimit);
    This->tmp = (This->strLimit[4] == 'y') ? ON : OFF;
    Checkmove(DR->p_CloserStop, DR->p_fmove, This->tmp);
    This->tmp = (This->strLimit[5] == 'y') ? ON : OFF;
    Checkmove(DR->p_CloserSlow, DR->p_fmove, This->tmp);
    This->tmp = (This->strLimit[6] == 'y') ? ON : OFF;
    Checkmove(DR->p_OpennerSlow, DR->p_fmove, This->tmp);
    This->tmp = (This->strLimit[7] == 'y') ? ON : OFF;
    Checkmove(DR->p_OpennerStop, DR->p_fmove, This->tmp);

    /* 戻る */
    return;
}

```



```

/*
 * OnWaitOpenDoorChangeLog
 */
/* エレベーターの位置仮想ログ */
void OnWaitOpenDoorChangeLog(struct WaitDoorChangeLog *This, struct Door *DR)
{
    /* リミットスイッチの読み込み */
    This->p_strLimit = &This->strLimit[0];
    Limit_Read(&This->LF, This->p_strLimit);
    This->tmp = (This->strLimit[4] == 'y') ? ON : OFF;
    Checkfmove(DR->p_CloserStop, DR->p_fmove, This->tmp);
    This->tmp = (This->strLimit[5] == 'y') ? ON : OFF;
    Checkfmove(DR->p_CloserSlow, DR->p_fmove, This->tmp);
    This->tmp = (This->strLimit[6] == 'y') ? ON : OFF;
    Checkfmove(DR->p_OpennerSlow, DR->p_fmove, This->tmp);
    This->tmp = (This->strLimit[7] == 'y') ? ON : OFF;
    Checkfmove(DR->p_OpennerStop, DR->p_fmove, This->tmp);

    /* 戻る */
    return;
}

/*
 * OnWaitCloseDoorChangeLog
 */
/* エレベーターの位置仮想ログ */
void OnWaitCloseDoorChangeLog(struct WaitDoorChangeLog *This, struct Door *DR)
{
    /* リミットスイッチの読み込み */

```

```
This->p_strLimit = &This->strLimit[0];
Limit_Read(&This->LF, This->p_strLimit);
This->tmp = (This->strLimit[4] == 'y') ? ON : OFF;
Checkfmove(DR->p_CloserStop, DR->p_fmove, This->tmp);
This->tmp = (This->strLimit[5] == 'y') ? ON : OFF;
Checkfmove(DR->p_CloserSlow, DR->p_fmove, This->tmp);
This->tmp = (This->strLimit[6] == 'y') ? ON : OFF;
Checkfmove(DR->p_OpennerSlow, DR->p_fmove, This->tmp);
This->tmp = (This->strLimit[7] == 'y') ? ON : OFF;
Checkfmove(DR->p_OpennerStop, DR->p_fmove, This->tmp);
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* Open
```

```
*/
```

```
/* 開 */
```

```
void Open(struct Door *DR, struct OpenMotor OPMT, struct WaitDoorChangeLog WDCL, char
*p_Safety)
```

```
{
```

```
/* 到着まで */
```

```
if(*DR->p_OpennerStop == OFF)
```

```
{
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitOpenDoorChangeLog(&WDCL, DR);
```

```
/* 開 */
```

```
OnOpenMotor(&OPMT, DR, p_Safety);
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitOpenDoorChangeLog(&WDCL, DR);
```

```
}
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/*
```

```
* Close
```

```
*/
```

```
/* 閉 */
```

```
void Close(struct Door *DR, struct CloseMotor CLMT, struct WaitDoorChangeLog WDCL, char  
*p_Safety)
```

```
{
```

```
/* 到着まで */
```

```
if(*DR->p_CloserStop == OFF)
```

```
{
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitCloseDoorChangeLog(&WDCL, DR);
```

```
/* 閉 */
```

```
OnCloseMotor(&CLMT, DR, p_Safety);
```

```
/* エレベーターの位置仮想ログ */
```

```
OnWaitCloseDoorChangeLog(&WDCL, DR);
```

```
}
```

```
/* 戻る */
```

```
return;
```

```
}
```

```
/* EV_Input.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
#ifndef Timer_h
```

```
#define Timer_h
```

```
#include "Timer.h"
```

```
#endif
```

```
#ifndef EV_Time_h
```

```
#define EV_Time_h
```

```
#include "EV_Time.h"
```

```
#endif
```

```
#ifndef EV_File_h
```

```
#define EV_File_h
```

```
#include "EV_File.h"
```

```
#endif
```

```
#ifndef EV_UpDown_h
```

```
#define EV_UpDown_h
```

```
#include "EV_UpDown.h"
```

```
#endif
```

```
#ifndef EV_OpenClose_h
```

```
#define EV_OpenClose_h
```

```
#include "EV_OpenClose.h"
```

```
#endif
```

```
/*=====
  入力を表す関数のプロトタイプ宣言
=====*/
```

```
char GetChar(char Ret);
```

```
/*=====
  入力を表す構造体
=====*/
```

```
struct EV_Input
```

```
{
    /* 安全 */
    char Safety;
    char *p_Safety;
    char Command;
    char PermitCommand;
    char *p_PermitCommand;
    char PermitTurnOpen;
    char *p_PermitTurnOpen;
    char ch;
    char *p_ch;
    char str[9];
    char *p_str;
```

```
/* ファイルストリーム */
```

```
struct EV_File SF;
```

```
struct EV_File CF;

struct EV_File PCF;

struct EV_File PTOF;

struct EV_File LF;

struct EV_File MF;

};

/*=====
  入力を表すコンストラクタとメソッドのプロトタイプ宣言
=====*/

void EV_Input(struct EV_Input *This);

void OnInput(struct EV_Input *This, Thread *th);
```

```
/* EV_Input.c */
```

```
#include "C.h"
```

```
#include "EV_Input.h"
```

```
/*=====
```

```
  入力を表す関数
```

```
=====*/
```

```
char GetChar(char Ret)
```

```
{
```

```
#ifndef USE_BCC
```

```
    char sw[4];
```

```
    int i;
```

```
    int j;
```

```
    /* スイッチワーク初期化 */
```

```
    sw[0] = sw[1] = sw[2] = sw[3] = 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 */
```

```
        {
```

```
            switch(j){
```

```
            case 0:
```

```
                Ret = 'u'; /* sw0 Up 2階で開く */
```

```
                break;
```

```
            case 1:
```

```
                Ret = 'd'; /* sw1 Down 1階で開く */
```



```
        break;
    case 2:
        Ret = 'c'; /* sw2 Close 閉じる */
        break;
    case 3:
        Ret = 'q'; /* sw3 Quit 終了 */
        break;
    default:
        break;
}
}
}
}

#elif USE_LINUX
    if(kbhit())
    {
        Ret = (char) getchar();
    }

#elif USE_MSVS2005
    if(_kbhit())
    {
        Ret = (char) _getche();
    }

#else
    if(kbhit())
    {
        Ret = (char) getche();
    }

#endif

return Ret;
```

```
}
```

```
/*=====
```

```
  入力を表すコンストラクタとメソッド
```

```
=====*/
```

```
void EV_Input(struct EV_Input *This)
```

```
{
```

```
    /* 初期化 */
```

```
    This->Command = '¥0';
```

```
    This->p_ch = &This->ch;
```

```
    This->p_str = &This->str[0];
```

```
    This->str[8] = '¥0';
```

```
    /* 安全初期化 */
```

```
    This->p_Safety = &This->Safety;
```

```
    /* 入力許可初期化 */
```

```
    This->p_PermitCommand = &This->PermitCommand;
```

```
    /* 反転開許可初期化 */
```

```
    This->p_PermitTurnOpen = &This->PermitTurnOpen;
```

```
    EV_File(&This->SF);
```

```
    EV_File(&This->CF);
```

```
    EV_File(&This->PCF);
```

```
    EV_File(&This->PTOF);
```

```
    EV_File(&This->MF);
```

```
    /* 安全入力 */
```

```
    if(Read(&This->SF, "Safety.txt¥0", This->p_Safety) == NG) return;
```

```
    /* 入力許可 */
```

```
    if(PermitCommand_Read(&This->PCF, This->p_PermitCommand) == NG) return;
```

```

/* 反転開許可 */
if(PermitTurnOpen_Read(&This->PTOF, This->p_PermitTurnOpen) == NG) return;
/* モーター命令解読 */
if(Read(&This->MF, "Motor.txt¥0", This->p_ch) == NG) return;
/* リミットスイッチの前状態読み込み */
ReadString(&This->LF, "Limit.txt¥0", This->p_str, 9);
}

```

```

void OnInput(struct EV_Input *This, Thread *th)

```

```

{
    if(Command_Read(&This->CF, &This->Command) == NG) return;
    This->Command = GetChar(This->Command);

    /* 安全入力 */
    if(Read(&This->SF, "Safety.txt¥0", This->p_Safety) == NG) return;
    /* 入力許可 */
    if(PermitCommand_Read(&This->PCF, This->p_PermitCommand) == NG) return;
    /* 反転開許可 */
    if(PermitTurnOpen_Read(&This->PTOF, This->p_PermitTurnOpen) == NG) return;
    /* モーター命令解読 */
    if(Read(&This->MF, "Motor.txt¥0", This->p_ch) == NG) return;
    /* リミットスイッチの前状態読み込み */
    ReadString(&This->LF, "Limit.txt¥0", This->p_str, 9);

    switch(This->Command){
    case 's':
        /* 命令入力 */
        Write(&This->SF, "Safety.txt", 's');
        Motor_Write(&This->MF, 's');
    }
}

```

```

This->Command = 'N';
Command_Write(&This->CF, 'N');
PermitCommand_Write(&This->PCF, 'N');
break;
case 'r':
    /* 命令入力 */
    Write(&This->SF, "Safety.txt", 'h');
    This->Command = 'N';
    Command_Write(&This->CF, 'N');
    PermitCommand_Write(&This->PCF, 'c');
    break;
case 'q':
    /* 命令入力 */
    Command_Write(&This->CF, This->Command);
    Printf(ClsPnl, "QUIT");
    delete_(th);
    break;
default:
    if(This->PermitCommand == 'c'){
        switch(This->Command){
            case 'o':
                if(This->str[4] != 'y'){
                    PermitTurnOpen_Write(&This->PTOF, 'o');
                }
            if(This->Safety == 'h'){
                /* 命令入力 */
                This->Safety = 'Y';
                Write(&This->SF, "Safety.txt", 'Y');
            }
        }
    }

```

```

        if((This->ch == 's') && (This->Safety == 'Y') && (This->str[7] == 'n')){
            Motor_Write(&This->MF, 'h');
        }
    }
    /* 命令入力 */
    Command_Write(&This->CF, This->Command);
    PermitCommand_Write(&This->PCF, 'N');
    break;
case 'c':
    if(This->str[4] != 'y'){
        PermitTurnOpen_Write(&This->PTOF, 'o');
    }
    if(This->Safety == 'h'){
        /* 命令入力 */
        This->Safety = 'Y';
        Write(&This->SF, "Safety.txt", 'Y');
        if((This->ch == 's') && (This->Safety == 'Y') && (This->str[4] == 'n')){
            Motor_Write(&This->MF, 't');
        }
    }
    /* 命令入力 */
    Command_Write(&This->CF, This->Command);
    PermitCommand_Write(&This->PCF, 'N');
    break;
case 'u':
    if(This->str[4] != 'y'){
        PermitTurnOpen_Write(&This->PTOF, 'o');
    }
    if(This->Safety == 'h'){

```

```

        /* 命令入力 */
        This->Safety = 'Y';
        Write(&This->SF, "Safety.txt", 'Y');
        if((This->ch == 's') && (This->Safety == 'Y') && (This->str[0] == 'y') && (This-
>str[4] == 'n')){
            Motor_Write(&This->MF, 't');
        }
        else if((This->ch == 's') && (This->Safety == 'Y') && (This->str[3] == 'n')){
            Motor_Write(&This->MF, 'j');
        }
        else if((This->ch == 's') && (This->Safety == 'Y') && (This->str[3] == 'y') && (This-
>str[7] == 'n')){
            Motor_Write(&This->MF, 'h');
        }
    }
    /* 命令入力 */
    Command_Write(&This->CF, This->Command);
    PermitCommand_Write(&This->PCF, 'N');
    break;
case 'd':
    if(This->str[4] != 'y'){
        PermitTurnOpen_Write(&This->PTOF, 'o');
    }
    if(This->Safety == 'h'){
        /* 命令入力 */
        This->Safety = 'Y';
        Write(&This->SF, "Safety.txt", 'Y');
        if((This->ch == 's') && (This->Safety == 'Y') && (This->str[3] == 'y') && (This-
>str[4] == 'n')){

```

```

        Motor_Write(&This->MF, 't');
    }
    else if((This->ch == 's') && (This->Safety == 'Y') && (This->str[0] == 'n')){
        Motor_Write(&This->MF, 'k');
    }
    else if((This->ch == 's') && (This->Safety == 'Y') && (This->str[0] == 'y') && (This-
>str[7] == 'n')){
        Motor_Write(&This->MF, 'h');
    }
}
/* 命令入力 */
Command_Write(&This->CF, This->Command);
PermitCommand_Write(&This->PCF, 'N');
break;
case 'y':
    if((This->str[0] != 'y') && (This->str[4] != 'y')){
        Printf(ClsPnl, "¥nA Basket isn't 1st Floor");
    }
    else{
        if(This->Safety == 'h'){
            /* 命令入力 */
            This->Safety = 'Y';
            Write(&This->SF, "Safety.txt", 'Y');
            if((This->ch == 's') && (This->Safety == 'Y') && (This->str[0] == 'n')){
                Motor_Write(&This->MF, 'k');
            }
            else if((This->ch == 's') && (This->Safety == 'Y') && (This->str[0] == 'y') &&
(This->str[7] == 'n')){
                Motor_Write(&This->MF, 'h');
            }
        }
    }
}

```

```

        }
    }
    /* 命令入力 */
    Command_Write(&This->CF, This->Command);
    PermitCommand_Write(&This->PCF, 'N');
}
break;
case 'Y':
    if((This->str[3] != 'y') && (This->str[4] != 'y')){
        Printf(ClsPnl, "¥nA Basket isn't 2nd Floor");
    }
    else{
        if(This->Safety == 'h'){
            /* 命令入力 */
            This->Safety = 'Y';
            Write(&This->SF, "Safety.txt", 'Y');
            if((This->ch == 's') && (This->Safety == 'Y') && (This->str[3] == 'n')){
                Motor_Write(&This->MF, 'j');
            }
            else if((This->ch == 's') && (This->Safety == 'Y') && (This->str[3] == 'y') &&
(This->str[7] == 'n')){
                Motor_Write(&This->MF, 'h');
            }
        }
    }
    /* 命令入力 */
    Command_Write(&This->CF, This->Command);
    PermitCommand_Write(&This->PCF, 'N');
}

```



```

    break;
case 'h':
    if(This->str[0] != 'y'){
        Printf(ClsPnl, "¥nA Basket isn't 1st Floor");
    }
    else{
        if(This->str[4] != 'y'){
            PermitTurnOpen_Write(&This->PTOF, 'o');
        }
        if(This->Safety == 'h'){
            /* 命令入力 */
            This->Safety = 'Y';
            Write(&This->SF, "Safety.txt", 'Y');
            if((This->ch == 's') && (This->Safety == 'Y') && (This->str[4] == 'n')){
                Motor_Write(&This->MF, 't');
            }
        }
        /* 命令入力 */
        Command_Write(&This->CF, This->Command);
        PermitCommand_Write(&This->PCF, 'N');
    }
    break;
case 'H':
    if(This->str[3] != 'y'){
        Printf(ClsPnl, "¥nA Basket isn't 2nd Floor");
    }
    else{
        if(This->str[4] != 'y'){
            PermitTurnOpen_Write(&This->PTOF, 'o');
        }
    }
}

```

```

    }
    if(This->Safety == 'h'){
        /* 命令入力 */
        This->Safety = 'Y';
        Write(&This->SF, "Safety.txt", 'Y');
        if((This->ch == 's') && (This->Safety == 'Y') && (This->str[4] == 'n')){
            Motor_Write(&This->MF, 't');
        }
    }
    /* 命令入力 */
    Command_Write(&This->CF, This->Command);
    PermitCommand_Write(&This->PCF, 'N');
}
break;
default:
    break;
}
}
else if(This->PermitTurnOpen == 'o'){
    if((This->str[0] == 'y') && (This->str[7] != 'y')){
        switch(This->Command){
        case 'o':
        case 'd':
        case 'y':
            if(This->Safety == 'h'){
                /* 命令入力 */
                This->Safety = 'Y';
                Write(&This->SF, "Safety.txt", 'Y');
                if((This->ch == 's') && (This->Safety == 'Y') && (This->str[0] == 'y') && (This-

```

```

>str[7] == 'n')){

        Motor_Write(&This->MF, 'h');

    }

}

/* 命令入力 */

Command_Write(&This->CF, This->Command);

PermitTurnOpen_Write(&This->PTOF, 'N');

break;

default:

    break;

}

}

else if((This->str[3] == 'y') && (This->str[7] != 'y')){

    switch(This->Command){

    case 'o':

    case 'u':

    case 'Y':

        if(This->Safety == 'h'){

            /* 命令入力 */

            This->Safety = 'Y';

            Write(&This->SF, "Safety.txt", 'Y');

            if((This->ch == 's') && (This->Safety == 'Y') && (This->str[3] == 'y') && (This->str[7] == 'n')){

                Motor_Write(&This->MF, 'h');

            }

        }

        /* 命令入力 */

        Command_Write(&This->CF, This->Command);

        PermitTurnOpen_Write(&This->PTOF, 'N');

```

```
        break;
    default:
        break;
    }
}
}
break;
}
return;
}
```

```
/* EV_Controller.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
#ifndef Timer_h
```

```
#define Timer_h
```

```
#include "Timer.h"
```

```
#endif
```

```
#ifndef EV_Time_h
```

```
#define EV_Time_h
```

```
#include "EV_Time.h"
```

```
#endif
```

```
#ifndef EV_File_h
```

```
#define EV_File_h
```

```
#include "EV_File.h"
```

```
#endif
```

```
#ifndef EV_UpDown_h
```

```
#define EV_UpDown_h
```

```
#include "EV_UpDown.h"
```

```
#endif
```

```
#ifndef EV_OpenClose_h
```

```
#define EV_OpenClose_h
```

```
#include "EV_OpenClose.h"
```

```
#endif
```

```
/*=====
制御盤を表す構造体宣言
=====*/
```

```
struct EV_Controller
```

```
{
```

```
/* エレベーターの現在位置オブジェクトの宣言 */
```

```
struct Position P;
```

```
struct Position *p_P;
```

```
/* 上昇オブジェクトの宣言 */
```

```
struct UpMotor UPMT;
```

```
/* 下降オブジェクトの宣言 */
```

```
struct DownMotor DNMT;
```

```
/* エレベーターの位置仮想ログ */
```

```
struct WaitPositionChangeLog WPCL;
```

```
/* エレベーターの現在位置オブジェクトの宣言 */
```

```
struct Door DR;
```

```
struct Door *p_DR;
```

```
/* 開オブジェクトの宣言 */
```

```
struct OpenMotor OPMT;
```

```
/* 閉オブジェクトの宣言 */
```

```
struct CloseMotor CLMT;
```

```
/* エレベーターの位置仮想ログ */  
struct WaitDoorChangeLog WDCL;
```

```
/* 経過時間テンポラリ */  
struct EV_Time T;
```

```
/* 安全 */
```

```
char Safety;
```

```
char *p_Safety;
```

```
/* Limit */
```

```
char str[9];
```

```
char *p_str;
```

```
/* 命令 */
```

```
char Command;
```

```
char *p_Command;
```

```
char PermitCommand;
```

```
char *p_PermitCommand;
```

```
char PermitTurnOpen;
```

```
char *p_PermitTurnOpen;
```

```
/* ファイルストリーム */
```

```
struct EV_File SF;
```

```
struct EV_File LF;
```

```
struct EV_File CF;
```

```
struct EV_File PCF;
```

```
struct EV_File PTOF;
```

```
struct EV_File MF;
```

```
};
```

```
/*=====
  制御を表すコンストラクタとメソッドのプロトタイプ宣言
=====*/
void EV_Controller(struct EV_Controller *This, Thread *th);
void OnController(struct EV_Controller *This, Thread *th);
```



```
/* EV_Controller.c */
```

```
#include "C.h"
```

```
#include "EV_Controller.h"
```

```
/*=====
```

```
制御関数
```

```
=====*/
```

```
void EV_Controller(struct EV_Controller *This, Thread *th)
```

```
{
```

```
    /* 初期化 */
```

```
    This->p_P = &This->P;
```

```
    Position(This->p_P);
```

```
    UpMotor(&This->UPMT);
```

```
    DownMotor(&This->DNMT);
```

```
    WaitPositionChangeLog(&This->WPCL);
```

```
    This->p_DR = &This->DR;
```

```
    Door(This->p_DR);
```

```
    OpenMotor(&This->OPMT);
```

```
    CloseMotor(&This->CLMT);
```

```
    WaitDoorChangeLog(&This->WDCL);
```

```
    EV_Time(&This->T, th);
```

```
    EV_File(&This->SF);
```

```
    EV_File(&This->LF);
```

```
    EV_File(&This->CF);
```

```
    EV_File(&This->PCF);
```

```
    EV_File(&This->PTOF);
```

```
    EV_File(&This->MF);
```

```

/* 安全初期化 */
This->p_Safety = &This->Safety;

/* Limit初期化 */
This->p_str = &This->str[0];

/* 命令初期化 */
This->p_Command = &This->Command;
This->p_PermitCommand = &This->PermitCommand;
This->p_PermitTurnOpen = &This->PermitTurnOpen;

/* モーター停止命令 */
Motor_Write(&This->MF, 's');

/* エレベーターの位置仮想ログ */
/* 初期値 */
OnInitWaitPositionChangeLog(&This->WPCL, This->p_P);

/* エレベーターの位置仮想ログ */
/* 初期値 */
OnInitWaitDoorChangeLog(&This->WDCL, This->p_DR);

/* リミットスイッチの前状態読み込み */
ReadString(&This->LF, "Limit.txt¥0", This->p_str, 9);

/* 命令初期化 */
if(Command_Write(&This->CF, 'N') == NG) return;
if(PermitCommand_Write(&This->PCF, 'c') == NG) return;
if(PermitTurnOpen_Write(&This->PTOF, 'N') == NG) return;
}

```

```

/*
 * 主制御関数
 */
void OnController(struct EV_Controller *This, Thread *th)
{
    /* 安全入力 */
    if(Read(&This->SF, "Safety.txt¥0", This->p_Safety) == NG) return;
    /* リミットスイッチの前状態読み込み */
    ReadString(&This->LF, "Limit.txt¥0", This->p_str, 9);
    /* 命令入力 */
    if(Command_Read(&This->CF, This->p_Command) == NG) return;
    /* 入力許可 */
    if(PermitCommand_Read(&This->PCF, This->p_PermitCommand) == NG) return;
    /* 反転開許可 */
    if(PermitTurnOpen_Read(&This->PTOF, This->p_PermitTurnOpen) == NG) return;

    switch(This->Command){
        /* 終了命令ならば */
        case 'q':
            Motor_Write(&This->MF, 's');
            delete_(th);
            break;
        /* 非常停止命令ならば */
        case 's':
            SetPermit(&This->T, OFF);
            break;
        /* 復帰命令ならば */
        case 'r':
            break;
    }
}

```

```

/* 上階呼命令ならば */
case 'Y':
    if((*This->p_P->p_UnderStop == ON) && (*This->p_DR->p_CloserStop == OFF)){
        break;
    }
/* 上昇命令ならば */
case 'u':
    if(*This->p_P->p_UpperStop == ON){
        /* 開完了時 */
        if(*This->p_DR->p_OpennerStop == ON){
            PermitCommand_Write(&This->PCF, 'c');
            SetPermit(&This->T, ON);
            Command_Write(&This->CF, 'N');
            Clear();
            Printf(Pannel, "Hello EV    ");
            break;
        }
        else{
            SetPermit(&This->T, OFF);
            SetCurrentTime(&This->T);
            /* 開 */
            Open(This->p_DR, This->OPMT, This->WDCL, This->p_Safety);
        }
    }
}
else if(*This->p_DR->p_CloserStop == ON){
    /* 閉完了時 */
    SetPermit(&This->T, OFF);
    SetCurrentTime(&This->T);
    PermitTurnOpen_Write(&This->PTOF, 'N');
}

```

```

    /* 上昇 */
    Up(This->p_P,This->UPMT,This->WPCL, This->p_Safety);
}
else if(*This->p_DR->p_CloserStop == OFF){
    SetPermit(&This->T, OFF);
    SetCurrentTime(&This->T);
    /* 閉 */
    Close(This->p_DR,This->CLMT,This->WDCL, This->p_Safety);
}
else{
    SetPermit(&This->T, OFF);
    SetCurrentTime(&This->T);
}
break;
/* 下階呼命令ならば */
case 'y':
    if((*This->p_P->p_UpperStop == ON) && (*This->p_DR->p_CloserStop == OFF)){
        break;
    }
/* 下降命令ならば */
case 'd':
    if(*This->p_P->p_UnderStop == ON){
        /* 開完了時 */
        if(*This->p_DR->p_OpennerStop == ON){
            PermitCommand_Write(&This->PCF, 'c');
            SetPermit(&This->T, ON);
            Command_Write(&This->CF, 'N');
            Clear();
        }
    }
}

```

```

        Printf(Panel, "Hello EV    ");
        break;
    }
    else{
        SetPermit(&This->T, OFF);
        SetCurrentTime(&This->T);
        /* 開 */
        Open(This->p_DR,This->OPMT,This->WDCL, This->p_Safety);
    }
}
else if(*This->p_DR->p_CloserStop == ON){
    /* 閉完了時 */
    SetPermit(&This->T, OFF);
    SetCurrentTime(&This->T);
    PermitTurnOpen_Write(&This->PTOF, 'N');
    /* 下降 */
    Down(This->p_P,This->DNMT,This->WPCL, This->p_Safety);
}
else if(*This->p_DR->p_CloserStop == OFF){
    SetPermit(&This->T, OFF);
    SetCurrentTime(&This->T);
    /* 閉 */
    Close(This->p_DR,This->CLMT,This->WDCL, This->p_Safety);
}
else{
    SetPermit(&This->T, OFF);
    SetCurrentTime(&This->T);
}
break;

```

```
/* 開命令ならば */
```

```
case 'o':
```

```
/* 開完了時 */
```

```
if(*This->p_DR->p_OpennerStop == ON){
```

```
    PermitCommand_Write(&This->PCF, 'c');
```

```
    SetPermit(&This->T, ON);
```

```
    Command_Write(&This->CF, 'N');
```

```
    Clear();
```

```
    Printf(Panel, "Hello EV  ");
```

```
    break;
```

```
}
```

```
else{
```

```
    SetPermit(&This->T, OFF);
```

```
    SetCurrentTime(&This->T);
```

```
/* 開 */
```

```
    Open(This->p_DR, This->OPMT, This->WDCL, This->p_Safety);
```

```
}
```

```
break;
```

```
/* 閉命令ならば */
```

```
case 'c':
```

```
    SetPermit(&This->T, OFF);
```

```
    SetCurrentTime(&This->T);
```

```
/* 閉完了時 */
```

```
if(*This->p_DR->p_CloserStop == ON){
```

```
    PermitTurnOpen_Write(&This->PTOF, 'N');
```

```
    Command_Write(&This->CF, 'N');
```

```
    PermitCommand_Write(&This->PCF, 'c');
```

```
    Clear();
```

```
    Printf(Panel, "Hello EV  ");
```

```

        break;
    }
    else{
        /* 閉 */
        Close(This->p_DR,This->CLMT,This->WDCL, This->p_Safety);
    }
    break;
/* 閉命令ならば */
case 'H':
    if(*This->p_P->p_UpperStop == ON){
        SetPermit(&This->T, OFF);
        SetCurrentTime(&This->T);
        /* 閉完了時 */
        if(*This->p_DR->p_CloserStop == ON){
            Command_Write(&This->CF, 'N');
            PermitTurnOpen_Write(&This->PTOF, 'N');
            PermitCommand_Write(&This->PCF, 'c');
            Clear();
            Printf(Pannel, "Hello EV    ");
            break;
        }
    }
    else{
        /* 閉 */
        Close(This->p_DR,This->CLMT,This->WDCL, This->p_Safety);
    }
}

break;
/* 閉命令ならば */

```


case 'h':

```
if(*This->p_P->p_UnderStop == ON){
```

```
    SetPermit(&This->T, OFF);
```

```
    SetCurrentTime(&This->T);
```

```
    /* 閉完了時 */
```

```
    if(*This->p_DR->p_CloserStop == ON){
```

```
        Command_Write(&This->CF, 'N');
```

```
        PermitTurnOpen_Write(&This->PTOF, 'N');
```

```
        PermitCommand_Write(&This->PCF, 'c');
```

```
        Clear();
```

```
        Printf(Pannel, "Hello EV    ");
```

```
        break;
```

```
    }
```

```
    else{
```

```
        /* 閉 */
```

```
        Close(This->p_DR, This->CLMT, This->WDCL, This->p_Safety);
```

```
    }
```

```
}
```

```
break;
```

default:

```
break;
```

```
}
```

```
if((GetCurrentTime(&This->T) >= OPENTIMEOUT) && (*This->p_DR->p_OpennerStop == ON) &&  
(GetPermit(&This->T) == ON)){
```

```
    SetPermit(&This->T, OFF);
```

```
    SetCurrentTime(&This->T);
```

```
    PermitTurnOpen_Write(&This->PTOF, 'o');
```

```
    PermitCommand_Write(&This->PCF, 'N');
```

```
/* 閉 */
```

```
Command_Write(&This->CF, 'c');
```

```
}
```

```
return;
```

```
}
```

```
/* EV_Simulator.h */
```

```
#ifndef Panel_h
```

```
#define Panel_h
```

```
#include "Panel.h"
```

```
#endif
```

```
#ifndef Timer_h
```

```
#define Timer_h
```

```
#include "Timer.h"
```

```
#endif
```

```
#ifndef EV_Time_h
```

```
#define EV_Time_h
```

```
#include "EV_Time.h"
```

```
#endif
```

```
#ifndef EV_File_h
```

```
#define EV_File_h
```

```
#include "EV_File.h"
```

```
#endif
```

```
#ifndef EV_UpDown_h
```

```
#define EV_UpDown_h
```

```
#include "EV_UpDown.h"
```

```
#endif
```

```
#ifndef EV_OpenClose_h
```

```
#define EV_OpenClose_h
```

```
#include "EV_OpenClose.h"
```

```
#endif
```

```
/*=====
 シミュレータを表す関数のプロトタイプ宣言
=====*/
```

```
void DisplInput(void);
```

```
void Disp(char ch, char str[9]);
```

```
/*=====
 シミュレータを表す構造体
=====*/
```

```
struct EV_Simulator
```

```
{
```

```
    char ch;
```

```
    char *p_ch;
```

```
    char ch2;
```

```
    char *p_ch2;
```

```
    char ch3;
```

```
    char *p_ch3;
```

```
    char str[9];
```

```
    char *p_str;
```

```
    /* 時間管理 */
```

```
    struct EV_Time T;
```

```
    /* ファイルストリーム */
```

```
    struct EV_File SF;
```

```
struct EV_File CF;
struct EV_File MF;
struct EV_File LF;
};

/*=====
シミュレータを表すコンストラクタとメソッドのプロトタイプ宣言
=====*/

void EV_Simulator(struct EV_Simulator *This, Thread *th);
void OnSimulator(struct EV_Simulator *This, Thread *th);
```

```
/* EV_Simulator.c */
```

```
#include "C.h"
```

```
#include "EV_Simulator.h"
```

```
/*=====
```

```
シミュレータ関数
```

```
=====*/
```

```
void EV_Simulator(struct EV_Simulator *This, Thread *th)
```

```
{
```

```
    /* 初期化 */
```

```
    EV_Time(&This->T, th);
```

```
    SetCurrentTime(&This->T);
```

```
    This->p_ch = &This->ch;
```

```
    This->p_ch2 = &This->ch2;
```

```
    This->p_ch3 = &This->ch3;
```

```
    This->p_str = &This->str[0];
```

```
    This->str[8] = '¥0';
```

```
    EV_File(&This->SF);
```

```
    EV_File(&This->CF);
```

```
    EV_File(&This->MF);
```

```
    EV_File(&This->LF);
```

```
    /* モーター命令解読 */
```

```
    if(Read(&This->MF, "Motor.txt¥0", This->p_ch) == NG) return;
```

```
    /* リミットスイッチの前状態読み込み */
```

```
    if(ReadString(&This->LF, "Limit.txt¥0", This->p_str, 9) == NG) return;
```

```
    /* 籠表示 */
```

```

Disp(This->ch, This->str);
}

void OnSimulator(struct EV_Simulator *This, Thread *th)
{
    /* 終了条件 */
    Read(&This->CF, "Command.txt¥0", This->p_ch3);
    if(This->ch3 == 'q'){
        Clear();
        delete_(th);
        return;
    }

    /* モーター命令解読 */
    Read(&This->MF, "Motor.txt¥0", This->p_ch);

    /* リミットスイッチの前状態読み込み */
    ReadString(&This->LF, "Limit.txt¥0", This->p_str, 9);

    /* 停止条件 */
    Read(&This->SF, "Safety.txt¥0", This->p_ch2);
    if(This->ch2 == 's'){
        Write(&This->CF, "Command.txt¥0", 'N');
        /* 籠表示 */
        Disp(This->ch, This->str);
        return;
    }

    /* リミットスイッチの新状態作成 */

```

```

if(This->ch == 'u'){
    if(This->str[0] == 'y');
    else if(This->str[1] == 'y') This->str[1] = 'n';
    else if(This->str[2] == 'n');
    else if(This->str[3] == 'n') This->str[3] = 'y';
}
else if(This->ch == 'U'){
    if(This->str[0] == 'y');
    else if(This->str[1] == 'y');
    else if(This->str[2] == 'n') This->str[2] = 'y';
    else if(This->str[3] == 'n');
}
else if(This->ch == 'j'){
    if(This->str[0] == 'y') This->str[0] = 'n';
    else if(This->str[1] == 'y') This->str[1] = 'n';
    else if(This->str[2] == 'n') This->str[2] = 'y';
    else if(This->str[3] == 'n') This->str[3] = 'y';
}
else if(This->ch == 'd'){
    if(This->str[3] == 'y');
    else if(This->str[2] == 'y') This->str[2] = 'n';
    else if(This->str[1] == 'n');
    else if(This->str[0] == 'n') This->str[0] = 'y';
}
else if(This->ch == 'D'){
    if(This->str[3] == 'y');
    else if(This->str[2] == 'y');
    else if(This->str[1] == 'n') This->str[1] = 'y';
    else if(This->str[0] == 'n');
}

```



```

}
else if(This->ch == 'k'){
    if(This->str[3] == 'y') This->str[3] = 'n';
    else if(This->str[2] == 'y') This->str[2] = 'n';
    else if(This->str[1] == 'n') This->str[1] = 'y';
    else if(This->str[0] == 'n') This->str[0] = 'y';
}
else if(This->ch == 'o'){
    if(This->str[4] == 'y');
    else if(This->str[5] == 'y') This->str[5] = 'n';
    else if(This->str[6] == 'n');
    else if(This->str[7] == 'n') This->str[7] = 'y';
}
else if(This->ch == 'O'){
    if(This->str[4] == 'y');
    else if(This->str[5] == 'y');
    else if(This->str[6] == 'n') This->str[6] = 'y';
    else if(This->str[7] == 'n');
}
else if(This->ch == 'h'){
    if(This->str[4] == 'y') This->str[4] = 'n';
    else if(This->str[5] == 'y') This->str[5] = 'n';
    else if(This->str[6] == 'n') This->str[6] = 'y';
    else if(This->str[7] == 'n') This->str[7] = 'y';
}
else if(This->ch == 'c'){
    if(This->str[7] == 'y');
    else if(This->str[6] == 'y') This->str[6] = 'n';
    else if(This->str[5] == 'n');
}

```

```

        else if(This->str[4] == 'n') This->str[4] = 'y';
    }
    else if(This->ch == 'C'){
        if(This->str[7] == 'y');
        else if(This->str[6] == 'y');
        else if(This->str[5] == 'n') This->str[5] = 'y';
        else if(This->str[4] == 'n');
    }
    else if(This->ch == 't'){
        if(This->str[7] == 'y') This->str[7] = 'n';
        else if(This->str[6] == 'y') This->str[6] = 'n';
        else if(This->str[5] == 'n') This->str[5] = 'y';
        else if(This->str[4] == 'n') This->str[4] = 'y';
    }

    /* リミットスイッチの新状態書き込み */
    WriteString(&This->LF, "Limit.txt¥0", This->str);

    /* 籠表示 */
    Disp(This->ch, This->str);

    return;
}

void DispInput(void)
{
    /* 入力指示 */
    Printf(InputCommand, "¥nUP = 'u', DOWN = 'd', OPEN = 'o', CLOSE = 'c'");
}

```

```

PrintF(InputCommand, "%nEMERGENCY = 's', RECOVERY = 'r'");
PrintF(InputCommand, "%n1st Floor CALL = 'y', 2nd Floor CALL = 'Y'");
PrintF(InputCommand, "%n1st Floor CLOSE = 'h', 2nd Floor CLOSE = 'H'");
PrintF(InputCommand, "%nQUIT = 'q'");
PrintF(InputCommand, "%nCOMMAND>");
}

/*
 * 表示関数
 */
void Disp(char ch, char str[9])
{
    int i;
#ifdef USE_BCC
    /* 画面クリア */
    CLEAR;
#endif
    if (((ch == 'u') || (ch == 'j')) && (str[3] == 'y') && (str[2] == 'y'))
        || ((ch == 'k') && (str[3] == 'n') && (str[2] == 'y'))
    {
        for(i = 0; i < 4; i++)
        {
            PrintF(Monitor, "%n 00000000 ");
        }
        for(i = 4; i < 12; i++)
        {
            PrintF(Monitor, "%n ");
        }
    }
}

```

```

else if((((ch == 'U' || (ch == 'j')) && (str[3] == 'n') && (str[2] == 'y'))
    || (((ch == 'd' || (ch == 'k')) && (str[3] == 'n') && (str[2] == 'n') && (str[1] == 'n') && (str[0] ==
'n'))
    || ((ch == 's') && (str[3] == 'n') && (str[2] == 'y'))))
{
    for(i = 0; i < 2; i++)
    {
        Printf(Monitor, "%n      ");
    }
    for(i = 2; i < 6; i++)
    {
        Printf(Monitor, "%n 00000000 ");
    }
    for(i = 6; i < 12; i++)
    {
        Printf(Monitor, "%n      ");
    }
}
else if((ch == 's') && (str[3] == 'n') && (str[2] == 'n') && (str[1] == 'n') && (str[0] == 'n'))
{
    for(i = 0; i < 4; i++)
    {
        Printf(Monitor, "%n      ");
    }
    for(i = 4; i < 8; i++)
    {
        Printf(Monitor, "%n 00000000 ");
    }
    for(i = 8; i < 12; i++)

```

```

    {
        Printf(Monitor, "%n      ");
    }
}
else if((((ch == 'u') || (ch == 'j')) && (str[3] == 'n') && (str[2] == 'n') && (str[1] == 'n') && (str[0] ==
'n'))
    || (((ch == 'D') || (ch == 'k')) && (str[1] == 'y') && (str[0] == 'n'))
    || ((ch == 's') && (str[1] == 'y') && (str[0] == 'n')))
{
    for(i = 0; i < 6; i++)
    {
        Printf(Monitor, "%n      ");
    }
    for(i = 6; i < 10; i++)
    {
        Printf(Monitor, "%n 00000000 ");
    }
    for(i = 10; i < 12; i++)
    {
        Printf(Monitor, "%n      ");
    }
}
else if(((ch == 'j') && (str[1] == 'y') && (str[0] == 'n'))
    || (((ch == 'd') || (ch == 'k')) && (str[1] == 'y') && (str[0] == 'y')))
{
    for(i = 0; i < 8; i++)
    {
        Printf(Monitor, "%n      ");
    }
}

```

```

for(i = 8; i < 12; i++)
{
    Printf(Monitor, "%n 00000000 ");
}
}
else if((str[3] == 'y' && (str[2] == 'y'))
{
    if (((ch == 's') && (str[7] == 'y') && (str[6] == 'y'))
        || (((ch == 'o') || (ch == 'h')) && (str[7] == 'y') && (str[6] == 'y'))
        || ((ch == 't') && (str[7] == 'n') && (str[6] == 'y')))
    {
        for(i = 0; i < 4; i++)
        {
            Printf(Monitor, "%n0000 0000");
        }
        for(i = 4; i < 12; i++)
        {
            Printf(Monitor, "%n ");
        }
    }
    else if((((ch == 'O') || (ch == 'h')) && (str[7] == 'n') && (str[6] == 'y'))
        || (((ch == 'c') || (ch == 't')) && (str[7] == 'n') && (str[6] == 'n') && (str[5] == 'n') && (str[4]
== 'n'))
        || ((ch == 's') && (str[7] == 'n') && (str[6] == 'y')))
    {
        for(i = 0; i < 4; i++)
        {
            Printf(Monitor, "%n 0000 0000 ");

```

```

    }
    for(i = 4; i < 12; i++)
    {
        Printf(Monitor, "%n      ");
    }
}
else if((ch == 's') && (str[7] == 'n') && (str[6] == 'n') && (str[5] == 'n') && (str[4] == 'n'))
{
    for(i = 0; i < 4; i++)
    {
        Printf(Monitor, "%n 0000 0000 ");
    }
    for(i = 4; i < 12; i++)
    {
        Printf(Monitor, "%n      ");
    }
}
else if((((ch == 'o') || (ch == 'h')) && (str[7] == 'n') && (str[6] == 'n') && (str[5] == 'n') && (str[4]
== 'n'))
    || (((ch == 'C') || (ch == 't')) && (str[5] == 'y') && (str[4] == 'n'))
    || ((ch == 's') && (str[5] == 'y') && (str[4] == 'n')))
{
    for(i = 0; i < 4; i++)
    {
        Printf(Monitor, "%n 0000 0000 ");
    }
    for(i = 4; i < 12; i++)
    {
        Printf(Monitor, "%n      ");
    }
}

```

```

    }
}
else if(((ch == 's') && (str[5] == 'y') && (str[4] == 'y'))
    || ((ch == 'h') && (str[5] == 'y') && (str[4] == 'n'))
    || (((ch == 'c') || (ch == 't')) && (str[5] == 'y') && (str[4] == 'y')))
{
    for(i = 0; i < 4; i++)
    {
        Printf(Monitor, "%n 00000000 ");
    }
    for(i = 4; i < 12; i++)
    {
        Printf(Monitor, "%n ");
    }
}
}
else if((str[1] == 'y') && (str[0] == 'y'))
{
    if (((ch == 's') && (str[7] == 'y') && (str[6] == 'y'))
        || (((ch == 'o') || (ch == 'h')) && (str[7] == 'y') && (str[6] == 'y'))
        || ((ch == 't') && (str[7] == 'n') && (str[6] == 'y')))
    {
        for(i = 0; i < 8; i++)
        {
            Printf(Monitor, "%n ");
        }
        for(i = 8; i < 12; i++)
        {
            Printf(Monitor, "%n0000 0000");
        }
    }
}
}

```



```

    }
}
else if((((ch == 'O') || (ch == 'h')) && (str[7] == 'n') && (str[6] == 'y'))
    || (((ch == 'c') || (ch == 't')) && (str[7] == 'n') && (str[6] == 'n') && (str[5] == 'n') && (str[4]
== 'n'))
    || ((ch == 's') && (str[7] == 'n') && (str[6] == 'y')))
{
    for(i = 0; i < 8; i++)
    {
        Printf(Monitor, "%n      ");
    }
    for(i = 8; i < 12; i++)
    {
        Printf(Monitor, "%n 0000    0000 ");
    }
}
else if((ch == 's') && (str[7] == 'n') && (str[6] == 'n') && (str[5] == 'n') && (str[4] == 'n'))
{
    for(i = 0; i < 8; i++)
    {
        Printf(Monitor, "%n      ");
    }
    for(i = 8; i < 12; i++)
    {
        Printf(Monitor, "%n 0000    0000 ");
    }
}
else if((((ch == 'o') || (ch == 'h')) && (str[7] == 'n') && (str[6] == 'n') && (str[5] == 'n') && (str[4]
== 'n'))

```

```

    || ((ch == 'C') || (ch == 't')) && (str[5] == 'y') && (str[4] == 'n'))
    || ((ch == 's') && (str[5] == 'y') && (str[4] == 'n'))
{
    for(i = 0; i < 8; i++)
    {
        Printf(Monitor, "%n      ");
    }
    for(i = 8; i < 12; i++)
    {
        Printf(Monitor, "%n 0000 0000 ");
    }
}
else if(((ch == 's') && (str[5] == 'y') && (str[4] == 'y'))
    || ((ch == 'h') && (str[5] == 'y') && (str[4] == 'n'))
    || (((ch == 'c') || (ch == 't')) && (str[5] == 'y') && (str[4] == 'y')))
{
    for(i = 0; i < 8; i++)
    {
        Printf(Monitor, "%n      ");
    }
    for(i = 8; i < 12; i++)
    {
        Printf(Monitor, "%n 00000000 ");
    }
}
}
/* 入力指示 */
DisplInput();

```

```
return;
```

```
}
```

```
/* main.h */

#ifndef Panel_h
#define Panel_h
#include "Panel.h"
#endif

#ifndef Timer_h
#define Timer_h
#include "Timer.h"
#endif

#ifndef EV_Time_h
#define EV_Time_h
#include "EV_Time.h"
#endif

#ifndef EV_File_h
#define EV_File_h
#include "EV_File.h"
#endif

#ifndef EV_UpDown_h
#define EV_UpDown_h
#include "EV_UpDown.h"
#endif

#ifndef EV_OpenClose_h
#define EV_OpenClose_h
#include "EV_OpenClose.h"
#endif

#ifndef EV_Input_h
#define EV_Input_h
#include "EV_Input.h"
#endif

#ifndef EV_Controller_h
#define EV_Controller_h
#include "EV_Controller.h"
#endif

#ifndef EV_Simulator_h
#define EV_Simulator_h
#include "EV_Simulator.h"
#endif

#ifdef USE_THREAD
typedef struct tag_Count
{
#ifndef USE_BCC
    int cnt[2];
#else
    int cnt[8];
#endif
}Count;
#endif
```

```
/* main.c */
```

```
#include "C.h"
```

```
#include "main.h"
```

```
#ifdef USE_THREAD
```

```
Count Cnt;
```

```
int i_cnt, j_cnt;
```

```
#ifndef USE_BCC
```

```
/* 擬似スレッドの擬似インスタンス宣言 */
```

```
Thread* th[2];
```

```
#else
```

```
/* 擬似スレッドの擬似インスタンス宣言 */
```

```
Thread* th[8];
```

```
#endif
```

```
/* 擬似スレッドの擬似インスタンス宣言 */
```

```
Thread *th1[4];
```

```
Thread *th19;
```

```
Thread *th20;
```

```
Thread *th41;
```

```
Thread *th42;
```

```
Thread *th43;
```

```
#endif
```

```
#ifndef NOTUSE_FILES
```

```
EV_Status s;
```

```
#endif
```

```
/*=====
```

入力オブジェクト宣言

====*/

struct EV_Input in;

/*=====

制御オブジェクト宣言

====*/

struct EV_Controller cntrl;

/*=====

シミュレータオブジェクト宣言

====*/

struct EV_Simulator simu;

void main(void)

{

#ifndef USE_BCC

char sw[4];

int i;

int j;

int f;

int cnt;

static char buff[64];

#endif

#ifdef USE_THREAD

Thread *th30;

Thread *th31;

#endif

#ifndef USE_BCC

```

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 センソコントロール 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 */

/* スイッチワーク初期化 */

sw[0] = sw[1] = sw[2] = sw[3] = 0;

#else

printf("\nHello BCC");

#endif

#ifdef NOTUSE_FILES

```

```

/* ファイル初期化 */
new_EV_Status(&s);
#endif

#ifdef USE_THREAD

/* タイマー初期化 */
initWOVI();
/* 2秒待機 */
SleepMSec(2000);
/* LEDTEST */
th30 = new_Thread(30);
th31 = new_Thread(31);
Start(th30);
Start(th31);
for(;;)
{
    /* タイマー呼び出し */
    wovi(5000000.0);
    if(Thread_checkStayAnother() == 1)
    {
        break;
    }
}
#endif

Clear();

#ifdef USE_THREAD

/* LEDTEST */
delete_(th30);
#endif

PrintF(PANEL, "NEXT ");

```



```

/* 2秒待機 */
SleepMSec(2000);
Clear();

#ifdef USE_BCC
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\r\n",buff);
            /* NULL(0x00)まで送信 */
            write_buff(buff,strlen(buff)+1);
            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? */
{
    /* データ取得(buffサイズは64byteまで) */
    cnt = read_buff(buff,64);
    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 */
}

#else

printf("END");

/* 5秒待機 */
SleepMSec(5000);

return;

```

```

#endif
}

#ifdef USE_THREAD

/*
 * 擬似スレッドの擬似メソッド関数
 */

/* public void paint(Graphics g)の代用 */
void Repaint(void)
{
#ifdef USE_BCC
    int i;
#else
    int i,j;
#endif

    Clear();

#ifdef USE_BCC
    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>");
#else

```

```

for(i = 0; i < 8; i++)
{
    for(j = 0; j < Cnt.cnt[i]; j++)
    {
        printf(" ");
    }
    printf("<%d>", (i + 1));
    for(j = 0; j < 13 - Cnt.cnt[i]; j++)
    {
        printf(" ");
    }
    printf("|");
    printf("¥n");
}
#endif

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)
```

```

{
    int i;

    Thread *th1;

#ifdef USE_BCC
    char key = '¥0';

```

```
#else
```

```

int j;

char sw[4];

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

#endif

if(This->ID == 1)
{
    Repaint();
#endif USE_BCC
    Cnt.cnt[0]++;
    nextRun(This, (((rand() % 9) + 10) * 100));
#else
    if(kbhit())
    {
#ifdef USE_LINUX
        key = (char) getchar();
#else
        key = (char) getche();
#endif
    }

    if(key == 'r')
    {
        Cnt.cnt[0]++;
    }

    nextRun(This, (((rand() % 9) + 10) * 30));
    while(kbhit())
    {
#ifdef USE_LINUX

```

```

        key = (char) getchar();
#else
        key = (char) getche();
#endif
    }
#endif
    }
    else if(This->ID == 2)
    {
        Repaint();
#ifdef USE_BCC
        Cnt.cnt[1]++;
        nextRun(This, (((rand() % 9) + 10) * 100));
#else
        if(kbhit())
        {
#ifdef USE_LINUX
            key = (char) getchar();
#else
            key = (char) getche();
#endif
        }
        if(key == 'l')
        {
            Cnt.cnt[1]++;
        }
        nextRun(This, (((rand() % 9) + 10) * 30));
        while(kbhit())
        {

```

```

#ifdef USE_LINUX
    key = (char) getchar();
#else
    key = (char) getche();
#endif
}

#endif
}

#ifdef USE_BCC
    else if(((This->ID) >= 3) && ((This->ID) <= 8))
    {
        Repaint();
        Cnt.cnt[(This->ID) - 1]++;
        nextRun(This, (((rand() % 9) + 10) * 200));
    }
#endif

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 * 2));
    }
    else if(This->count == 2)
    {
        Clear();
        Printf(Panel, "<2>2nd    ");
        countUpNextRun(This, (1700 * 2));
    }
}

```



```

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

```

```

else if(This->count == 3)
{
    Clear();
    Printf(Panel, "<3>3rd ");
    countUpNextRun(This, (1700 * 3));
}
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 == 19)
{
#ifdef USE_LINUX
    nextRun(This, 4000);
#else
    nextRun(This, 1);
#endif
}

```

```
#ifndef USE_BCC
```

```
/* 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 + 20);
```

```
        nextRun(This, 1000);
```

```
    }
```

```
}
```

```
#else
```

```
key = '¥0';
```

```
key = GetChar(key);
```

```
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);
    }
    else if(key == '5')
    {
        Thread_Toggle(25);
    }
    else if(key == '6')
    {
        Thread_Toggle(26);
    }
    else if(key == '7')
    {
        Thread_Toggle(27);
    }
    else if(key == '8')
    {
        Thread_Toggle(28);
    }
    else if(key == '9')
    {
        Thread_Toggle(29);
    }
    else if(key == '0')
    {
        Thread_Toggle(20);
    }
#endif
}
```

```
else if(This->ID == 20)
{
    Printf(Panel, "0");
    countUpNextRun(This, 2000);
}
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);
}
#ifdef USE_BCC
else if((This->ID >= 24) && (This->ID <= 29))
{
    printf("%d", This->ID - 20);
    nextRun(This, 2000);
}
#endif
#ifndef USE_BCC
else if(This->ID == 30)
```

```

{
    if(This->count == 0)
    {
        This->count++;
        PB.DR &= 0x0e;
        nextRun(This, 1000);
    }
    else if(This->count == 1)
    {
        This->count--;
        PB.DR |= 0x01;
        nextRun(This, 1000);
    }
}

#endif

else if(This->ID == 31)
{
    if(This->count == 0)
    {
        /* 第1部分 */
#ifdef USE_BCC
        printf("%nThread Ready GO! There are 8 cources on a race.");
        printf("%nThere are 80 cells to a GOAL.");
        printf("%nFor the <1> course, You click a 'R' button.");
        printf("%nFor the <2> course, You click a 'L' button.");
#endif
#ifdef USE_BCC
        countUpNextRun(This, 0);
#endif
}
}

```

```

        /* 5秒待機 */
        countUpNextRun(This, 5000);
#endif
    }
    else if(This->count == 1)
    {
        /* 擬似スレッド開始 */
        Printf(Pannel, "%n");
        Printf(Pannel, "Thread Ready GO!");
        /* 2秒待機 */
        countUpNextRun(This, 2000);
    }
    else if(This->count == 2)
    {
#endif USE_BCC
        /* 擬似スレッドの擬似インスタンス初期化 */
        for(i = 0; i < 2; i++)
        {
            th[i] = new_Thread(i + 1);
        }
#else
        /* 擬似スレッドの擬似インスタンス初期化 */
        for(i = 0; i < 8; i++)
        {
            th[i] = new_Thread(i + 1);
        }
#endif
        countUpNextRun(This, 1);
    }
}

```



```

    else if(This->count == 3)
    {
#ifdef USE_BCC
        if(Cnt.cnt[0] >= 13)
        {
            i_cnt = 1;
            This->count++;
        }
        else if(Cnt.cnt[1] >= 13)
        {
            i_cnt = 2;
            This->count++;
        }
#else
        i_cnt = Cnt.cnt[0];
        j_cnt = 0;
        for(i = 1; i < 8; i++)
        {
            if(i_cnt < Cnt.cnt[i])
            {
                i_cnt = Cnt.cnt[i];
                j_cnt = i;
            }
        }
        if(i_cnt >= 13) This->count++;
#endif
        nextRun(This, 1);
    }

```

```

else if(This->count == 4)
{
    Clear();
    if(i_cnt == 1)
    {
        Printf(Pannel, "GOAL!<1>WON  ");
    }
    else if(i_cnt == 2)
    {
        Printf(Pannel, "GOAL!<2>WON  ");
    }
#ifdef USE_BCC
    else
    {
        printf("GOAL!¥n<%d>WON", (j_cnt + 1));
    }
#endif
#ifdef USE_BCC
    delete_(th[0]);
    delete_(th[1]);
#else
    for(i = 0; i < 8; i++)
    {
        delete_(th[i]);
    }
#endif
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}

```

```

else if(This->count == 5)
{
    Clear();
    Printf(Panel, "NEXT ");
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}

else if(This->count == 6)
{
    Clear();
    /* 第2部分 */
    Printf(Panel, "CountUp ");
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}

else if(This->count == 7)
{
    /* 疑似スレッド開始 */
    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++)
    {
        th1[i] = new_Thread(i + 11);
    }
    countUpNextRun(This, 1);
}

else if(This->count == 8)
{
    if(Thread_checkStayAnother() == 2)

```

```

    {
        This->count++;
    }
    nextRun(This, 1);
}
else if(This->count == 9)
{
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}
else if(This->count == 10)
{
    Clear();
    Printf(Pannel, "NEXT ");
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}
else if(This->count == 11)
{
    Clear();
    /* 第3部分 */
    Printf(Pannel, "Toggle ");
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}
else if(This->count == 12)
{
    th19 = new_Thread(19);
    Start(th19);
}

```

```

    th20 = new_Thread(20);
    Start(th20);
    countUpNextRun(This, 1);
}
else if(This->count == 13)
{
    if(Thread_checkStayAnother() == 3)
    {
        delete_(th19);
        This->count++;
    }
    nextRun(This, 1);
}
else if(This->count == 14)
{
    countUpNextRun(This, 2000);
}
else if(This->count == 15)
{
    Clear();
    Printf(Pannel, "NEXT    ");
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}
else if(This->count == 16)
{
    Clear();
    /* 第4部分 */

```

```

    Printf(Panel, "Hello EV    ");
    /* 2秒待機 */
    countUpNextRun(This, 2000);
}
else if(This->count == 17)
{
    /* 擬似スレッドの擬似インスタンス初期化 */
    th41 = new_Thread(41);
    th42 = new_Thread(42);
    th43 = new_Thread(43);

    delete_(This);
}
}
else if(This->ID == 41)
{
    nextRun(This, 100);
    OnInput(&in, This);
}
else if(This->ID == 42)
{
    nextRun(This, 100);
    OnController(&cntrl, This);
}
else if(This->ID == 43)
{
    nextRun(This, 2000);
    OnSimulator(&simu, This);
}
}

```

```

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) * 30));
    }
    else if(This->ID == 2)
    {
        Cnt.cnt[1] = 0;
        nextRun(This, (((rand() % 9) + 10) * 30));
    }
    else if((This->ID >= 3) && (This->ID <= 8))
    {
        Cnt.cnt[(This->ID) - 1] = 0;
        nextRun(This, (((rand() % 9) + 10) * 200));
    }
    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 * 2));
    }
    else if(This->ID == 13)
    {
        Printf(Panel, "¥n");
        Printf(Panel, "<3>Init");
        countUpNextRun(This, (1500 * 3));
    }
    else if(This->ID == 14)
    {
        Printf(Panel, "<4>Init ");
        countUpNextRun(This, (1500 * 4));
    }
    else if(This->ID == 20)
    {
        Clear();
        Printf(Panel, "<0>Init ");
        Printf(Panel, "¥n");
        countUpNextRun(This, 2000);
    }
    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);
}
#ifdef USE_BCC
    else if((This->ID >= 24) && (This->ID <= 29))
    {
        printf("¥n<%d>Init¥n", This->ID - 20);
        nextRun(This,2000);
    }
#endif
#ifdef USE_BCC
    else if(This->ID == 30)
    {
        PB.DDR = 0xff; /* bit7..0 out */
        PB.DR |= 0xff;
    }
#endif
    else if(This->ID == 41)
    {

```

```

        nextRun(This, 100);
        EV_Input(&in);
    }
    else if(This->ID == 42)
    {
        nextRun(This, 100);
        EV_Controller(&cntrl, This);
    }
    else if(This->ID == 43)
    {
        nextRun(This, 2000);
        EV_Simulator(&simu, This);
    }
    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(Pannel, "<1>Destroy");
    }
    else if(This->ID == 12)
    {
        Printf(Pannel, "<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 == 20)
{
    Clear();
    Printf(Panel, "<0>Destroy  ");
    Printf(Panel, "¥n");
}
else 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");
}
#ifdef USE_BCC
    else if((This->ID >= 24) && (This->ID <= 29))
    {
        printf("¥n<%d>Destroy¥n", This->ID - 20);
    }
#endif
    return;
}
#endif

#ifndef USE_BCC
/*=====
                                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
```

実行環境

```
-I"c:\borland\Bcc55\include"  
-L"c:\borland\Bcc55\lib"
```


-L"c:\borland\Bcc55\Lib"

```

# makefile.mak
CC = bcc32
LL = ilink32
INCLUDE = -I"C:\borland\bcc55\Include"
LIB = -L"C:\borland\bcc55\Lib"
CFLAGS = -O2 -w -tWC -D"USE_BCC"
LFLAGS = /Tpe
TARGET = main.exe
OBJS = Panel.obj Timer.obj EV_Time.obj EV_File.obj EV_UpDown.obj EV_OpenClose.obj EV_Input.obj
EV_Controller.obj EV_Simulator.obj main.obj
$(TARGET): $(OBJS)
    $(LL) $(LFLAGS) $(LIB) \
    $(OBJS) c0x32.obj,$(TARGET),,cw32.lib import32.lib
main.obj : main.c main.h EV_Simulator.h EV_Controller.h EV_Input.h EV_OpenClose.h EV_UpDown.h
EV_File.h EV_Time.h Timer.h Panel.h C.h
    $(CC) $(CFLAGS) -c main.c
EV_Simulator.obj : EV_Simulator.c EV_Simulator.h EV_OpenClose.h EV_UpDown.h EV_File.h EV_Time.h
Timer.h Panel.h C.h
    $(CC) $(CFLAGS) -c EV_Simulator.c
EV_Controller.obj : EV_Controller.c EV_Controller.h EV_OpenClose.h EV_UpDown.h EV_File.h EV_Time.h
Timer.h Panel.h C.h
    $(CC) $(CFLAGS) -c EV_Controller.c
EV_Input.obj : EV_Input.c EV_Input.h EV_OpenClose.h EV_UpDown.h EV_File.h EV_Time.h Timer.h Panel.h
C.h
    $(CC) $(CFLAGS) -c EV_Input.c
EV_OpenClose.obj : EV_OpenClose.c EV_OpenClose.h EV_UpDown.h EV_File.h EV_Time.h Timer.h Panel.h
C.h
    $(CC) $(CFLAGS) -c EV_OpenClose.c
EV_UpDown.obj : EV_UpDown.c EV_UpDown.h EV_File.h EV_Time.h Timer.h Panel.h C.h
    $(CC) $(CFLAGS) -c EV_UpDown.c
EV_File.obj : EV_File.c EV_File.h Panel.h C.h
    $(CC) $(CFLAGS) -c EV_File.c
EV_Time.obj : EV_Time.c EV_Time.h Timer.h Panel.h C.h
    $(CC) $(CFLAGS) -c EV_Time.c
Timer.obj : Timer.c Timer.h Panel.h C.h
    $(CC) $(CFLAGS) -c Timer.c
Panel.obj : Panel.c Panel.h C.h
    $(CC) $(CFLAGS) -c Panel.c
clean:
    del *.obj
    del main.tds
    del main.ilc
    del main.ild
    del main.ilf
    del main.ils

```

; asmfile.src

.CPU 300HA

.SECTION V, CODE, LOCATE=H'000000

.IMPORT _main

.IMPORT _usb_int

.IMPORT _InterruptITU0

.DATA.L _start ;リセットベクトル

;1 Reserved

_INT_Reserved1: .DATA.L int_error

;2 Reserved

_INT_Reserved2: .DATA.L int_error

;3 Reserved

_INT_Reserved3: .DATA.L int_error

;4 Reserved

_INT_Reserved4: .DATA.L int_error

;5 Reserved

_INT_Reserved5: .DATA.L int_error

;6 Reserved

_INT_Reserved6: .DATA.L int_error

;7 NMI

_INT_NMI: .DATA.L int_error

;8 TRAP

_INT_TRAP1: .DATA.L int_error

;9 TRAP

_INT_TRAP2: .DATA.L int_error

;10 TRAP

_INT_TRAP3: .DATA.L int_error
;11 TRAP
_INT_TRAP4: .DATA.L int_error
;12 IRQ0
IRQ0: .DATA.L int_error
;13 IRQ1
IRQ1: .DATA.L int_error
;14 IRQ2
IRQ2: .DATA.L int_error
;15 IRQ3
IRQ3: .DATA.L int_error
;16 IRQ4
IRQ4: .DATA.L int_error
;17 IRQ5
IRQ5: .DATA.L usb_interrupt ;USB割り込み
;18 Reserved
_INT_Reserved18: .DATA.L int_error
;19 Reserved
_INT_Reserved19: .DATA.L int_error
;20 WOVI
_INT_WOVI: .DATA.L int_error
;21 CMI
_INT_CMI: .DATA.L int_error
;22 Reserved
_INT_Reserved22: .DATA.L int_error
;23 Reserved
_INT_Reserved23: .DATA.L int_error
;24 IMIA0
_INT_IMIA0: .DATA.L int_error

;25 IMIB0

_INT_IMIB0: .DATA.L int_error

;26 OVI0

_INT_OVI0: .DATA.L _ITU_OVI_0 ;タイマ0割り込み

;27 Reserved

_INT_Reserved27: .DATA.L int_error

;28 IMIA1

_INT_IMIA1: .DATA.L int_error

;29 IMIB1

_INT_IMIB1: .DATA.L int_error

;30 OVI1

_INT_OVI1: .DATA.L int_error

;31 Reserved

_INT_Reserved31: .DATA.L int_error

;32 IMIA2

_INT_IMIA2: .DATA.L int_error

;33 IMIB2

_INT_IMIB2: .DATA.L int_error

;34 OVI2

_INT_OVI2: .DATA.L int_error

;35 Reserved

_INT_Reserved35: .DATA.L int_error

;36 IMIA3

_INT_IMIA3: .DATA.L int_error

;37 IMIB3

_INT_IMIB3: .DATA.L int_error

;38 OVI3

_INT_OVI3: .DATA.L int_error

;39 Reserved

_INT_Reserved39: .DATA.L int_error

;40 IMIA4

_INT_IMIA4: .DATA.L int_error

;41 IMIB4

_INT_IMIB4: .DATA.L int_error

;42 OVI4

_INT_OVI4: .DATA.L int_error

;43 Reserved

_INT_Reserved43: .DATA.L int_error

;44 DEND0A

_INT_DEND0A: .DATA.L int_error

;45 DEND0B

_INT_DEND0B: .DATA.L int_error

;46 DEND1A

_INT_DEND1A: .DATA.L int_error

;47 DEND1B

_INT_DEND1B: .DATA.L int_error

;48 Reserved

_INT_Reserved48: .DATA.L int_error

;49 Reserved

_INT_Reserved49: .DATA.L int_error

;50 Reserved

_INT_Reserved50: .DATA.L int_error

;51 Reserved

_INT_Reserved51: .DATA.L int_error

;52 ERI0

_INT_ERI0: .DATA.L int_error

;53 RXI0

_INT_RXI0: .DATA.L int_error

;54 TXI0

_INT_TXI0: .DATA.L int_error

;55 TEI0

_INT_TEI0: .DATA.L int_error

;56 ERI1

_INT_ERI1: .DATA.L int_error

;57 RXI1

_INT_RXI1: .DATA.L int_error

;58 TXI1

_INT_TXI1: .DATA.L int_error

;59 TEI1

_INT_TEI1: .DATA.L int_error

;60 ADI

_INT_ADI: .DATA.L int_error

;------

.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

; c_thread.MAP のメモリアドレス使用状況を見る

; メモリアドレスが重複するとコンパイルエラーになる

; linkfile.sub も D(99C0), C(9A00) 等必要があれば合わせる

mov.l #H'99C0, er0 ; 転送元(99C0)

mov.l #H'OFFE000, 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

_ITU_OVI_0:

push.l er0

push.l er1

push.l er2

push.l er3

push.l er4

push.l er5

push.l er6

jsr @_InterruptITU0

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 c_thread
PRINT c_thread
INPUT asmfile, main, EV_Simulator, EV_Controller, EV_Input, EV_OpenClose, EV_UpDown, EV_File,
EV_Time, Timer, Panel, sci, lcd, usb
LIB c:\h8\akic\c38hab
START R(0FFE000), P(200), D(99C0), C(9A00)
ROM (D, R)
EXIT
```

```
@rem build.bat
C:
set bccDir="C:\borland\bcc55\Bin"
set akih8asmDir="c:\h8\akiasm"
set akih8cDir="c:\h8\akic"
set path=%bccDir%;%path%
set path=% akih8cDir%;% akih8asmDir%;%path%
set CurrentDir="%~dp0"
cd %CurrentDir%
del error.txt
make -f makefile.mak >> error.txt
make -f makefile.mak clean >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% Panel.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% Timer.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% EV_Time.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% EV_File.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% EV_UpDown.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% EV_OpenClose.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% EV_Input.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% EV_Controller.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% EV_Simulator.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% main.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% usb.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% sci.c >> error.txt
cc38h -cpu=300ha -include=% akih8cDir% lcd.c >> error.txt
a38h asmfile.src >> error.txt
l38h -subcommand=linkfile.sub >> error.txt
c38h c_thread >> error.txt
del %CurrentDir%*.obj >> error.txt
del %CurrentDir%c_thread.abs >> error.txt
error.txt
exit
```

```
#!/bin/bash
cd `dirname $0`
find $PWD -name linuxBuild.bash
rm ./linuxError.txt
gcc -D"USE_LINUX" -o linuxExe main.c EV_Simulator.c EV_Controller.c EV_Input.c EV_OpenClose.c
EV_UpDown.c EV_File.c EV_Time.c Timer.c Panel.c &>>./linuxError.txt
exit
```

```
#!/bin/bash
cd `dirname $0`
find $PWD -name linuxStart.bash
./linuxExe
exit
```

実行環境状態ファイル

yynnyynn

N

出力ファイル

Start	Length	Name	Class
0001:00401000	00000FED0H	_TEXT	CODE
0002:00411000	000003754H	_DATA	DATA
0003:00414754	000000B50H	_BSS	BSS
0004:00000000	0000000A4H	_TLS	TLS

PAGE 1

PROGRAM NAME =

```
1          1 ; asmfile.src
2          2
3          3 .CPU 300HA
4 000000    4 .SECTION V,CODE,LOCATE=H'000000
5          5 .IMPORT _main
6          6 .IMPORT _usb_int
7          7 .IMPORT _InterruptITU0
8          8
9 000000 00000000    9 .DATA.L _start ;リセットベクトル
10         10 ;1 Reserved
11 000004 00000000    11 _INT_Reserved1: .DATA.L int_error
12         12 ;2 Reserved
13 000008 00000000    13 _INT_Reserved2: .DATA.L int_error
14         14 ;3 Reserved
15 00000C 00000000    15 _INT_Reserved3: .DATA.L int_error
16         16 ;4 Reserved
17 000010 00000000    17 _INT_Reserved4: .DATA.L int_error
18         18 ;5 Reserved
19 000014 00000000    19 _INT_Reserved5: .DATA.L int_error
20         20 ;6 Reserved
21 000018 00000000    21 _INT_Reserved6: .DATA.L int_error
22         22 ;7 NMI
23 00001C 00000000    23 _INT_NMI: .DATA.L int_error
24         24 ;8 TRAP
```


25	000020	00000000	25	_INT_TRAP1: .DATA.L int_error
26			26	;9 TRAP
27	000024	00000000	27	_INT_TRAP2: .DATA.L int_error
28			28	;10 TRAP
29	000028	00000000	29	_INT_TRAP3: .DATA.L int_error
30			30	;11 TRAP
31	00002C	00000000	31	_INT_TRAP4: .DATA.L int_error
32			32	;12 IRQ0
33	000030	00000000	33	IRQ0: .DATA.L int_error
34			34	;13 IRQ1
35	000034	00000000	35	IRQ1: .DATA.L int_error
36			36	;14 IRQ2
37	000038	00000000	37	IRQ2: .DATA.L int_error
38			38	;15 IRQ3
39	00003C	00000000	39	IRQ3: .DATA.L int_error
40			40	;16 IRQ4
41	000040	00000000	41	IRQ4: .DATA.L int_error
42			42	;17 IRQ5
43	000044	00000000	43	IRQ5: .DATA.L usb_interrupt ;USB割り込み
44			44	;18 Reserved
45	000048	00000000	45	_INT_Reserved18: .DATA.L int_error
46			46	;19 Reserved
47	00004C	00000000	47	_INT_Reserved19: .DATA.L int_error
48			48	;20 WOVI
49	000050	00000000	49	_INT_WOVI: .DATA.L int_error
50			50	;21 CMI
51	000054	00000000	51	_INT_CMI: .DATA.L int_error
52			52	;22 Reserved
53	000058	00000000	53	_INT_Reserved22: .DATA.L int_error

54 54 ;23 Reserved
55 00005C 00000000 55 _INT_Reserved23: .DATA.L int_error
56 56 ;24 IMIA0
57 000060 00000000 57 _INT_IMIA0: .DATA.L int_error

*** H8/300H ASSEMBLER (Evaluation software) Ver.1.0 *** 03/11/18 15:11:13

PAGE 2

PROGRAM NAME =

58 58 ;25 IMIB0
59 000064 00000000 59 _INT_IMIB0: .DATA.L int_error
60 60 ;26 OVIO
61 000068 00000000 61 _INT_OVIO: .DATA.L _ITU_OVI_0 ;タイマ0割り込み
62 62 ;27 Reserved
63 00006C 00000000 63 _INT_Reserved27: .DATA.L int_error
64 64 ;28 IMIA1
65 000070 00000000 65 _INT_IMIA1: .DATA.L int_error
66 66 ;29 IMIB1
67 000074 00000000 67 _INT_IMIB1: .DATA.L int_error
68 68 ;30 OVI1
69 000078 00000000 69 _INT_OVI1: .DATA.L int_error
70 70 ;31 Reserved
71 00007C 00000000 71 _INT_Reserved31: .DATA.L int_error
72 72 ;32 IMIA2
73 000080 00000000 73 _INT_IMIA2: .DATA.L int_error
74 74 ;33 IMIB2
75 000084 00000000 75 _INT_IMIB2: .DATA.L int_error
76 76 ;34 OVI2
77 000088 00000000 77 _INT_OVI2: .DATA.L int_error
78 78 ;35 Reserved

79	00008C 00000000	79	_INT_Reserved35: .DATA.L int_error
80		80	;36 IMIA3
81	000090 00000000	81	_INT_IMIA3: .DATA.L int_error
82		82	;37 IMIB3
83	000094 00000000	83	_INT_IMIB3: .DATA.L int_error
84		84	;38 OVI3
85	000098 00000000	85	_INT_OVI3: .DATA.L int_error
86		86	;39 Reserved
87	00009C 00000000	87	_INT_Reserved39: .DATA.L int_error
88		88	;40 IMIA4
89	0000A0 00000000	89	_INT_IMIA4: .DATA.L int_error
90		90	;41 IMIB4
91	0000A4 00000000	91	_INT_IMIB4: .DATA.L int_error
92		92	;42 OVI4
93	0000A8 00000000	93	_INT_OVI4: .DATA.L int_error
94		94	;43 Reserved
95	0000AC 00000000	95	_INT_Reserved43: .DATA.L int_error
96		96	;44 DEND0A
97	0000B0 00000000	97	_INT_DEND0A: .DATA.L int_error
98		98	;45 DEND0B
99	0000B4 00000000	99	_INT_DEND0B: .DATA.L int_error
100		100	;46 DEND1A
101	0000B8 00000000	101	_INT_DEND1A: .DATA.L int_error
102		102	;47 DEND1B
103	0000BC 00000000	103	_INT_DEND1B: .DATA.L int_error
104		104	;48 Reserved
105	0000C0 00000000	105	_INT_Reserved48: .DATA.L int_error
106		106	;49 Reserved
107	0000C4 00000000	107	_INT_Reserved49: .DATA.L int_error

```

108          108  ;50 Reserved
109 0000C8 00000000      109  _INT_Reserved50: .DATA.L int_error
110          110  ;51 Reserved
111 0000CC 00000000      111  _INT_Reserved51: .DATA.L int_error
112          112  ;52 ERI0
113 0000D0 00000000      113  _INT_ERI0: .DATA.L int_error
114          114  ;53 RXI0

```

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PAGE 3

PROGRAM NAME =

```

115 0000D4 00000000      115  _INT_RXI0: .DATA.L int_error
116          116  ;54 TXI0
117 0000D8 00000000      117  _INT_TXI0: .DATA.L int_error
118          118  ;55 TEI0
119 0000DC 00000000      119  _INT_TEI0: .DATA.L int_error
120          120  ;56 ERI1
121 0000E0 00000000      121  _INT_ERI1: .DATA.L int_error
122          122  ;57 RXI1
123 0000E4 00000000      123  _INT_RXI1: .DATA.L int_error
124          124  ;58 TXI1
125 0000E8 00000000      125  _INT_TXI1: .DATA.L int_error
126          126  ;59 TEI1
127 0000EC 00000000      127  _INT_TEI1: .DATA.L int_error
128          128  ;60 ADI
129 0000F0 00000000      129  _INT_ADI: .DATA.L int_error
130          130
131          131  ;-----

```

```

132 000000      132  .SECTION P,CODE,ALIGN=2
133 000000      133  _start:
134 000000 7A0700FFFF10    134  mov.l #H'0FFFF10,er7
135
135      135
136      136  ;初期化付きデータを使用する場合、RAMに転送する
137      137  ;c_thread.MAP のメモリアドレス使用状況を見る
138      138  ;メモリアドレスが重複するとコンパイルエラーになる
139      139  ;linkfile.sub も D(99C0), C(9A00) 等必要があれば合わせる
140 000006 7A00000099C0    140  mov.l #H'99C0, er0 ; 転送元(99C0)
141 00000C 7A0100FFE000    141  mov.l #H'0FFE000, er1 ; 転送先
142 000012 7A0200000000    142  mov.l #DATA_END, er2 ; 転送終了
143 000018      143  init_loop:
144 000018 1F92      144  cmp.l er1, er2
145 00001A 58700008      145  beq init_end
146 00001E 6C0B      146  mov.b @er0+, r3l
147 000020 689B      147  mov.b r3l, @er1
148 000022 0B71      148  inc.l #1, er1
149 000024 40F2      149  bra init_loop
150 000026      150  init_end:
151 000026 5E000000    151  jsr @_main
152
152      152
153      153  ;割り込み未使用
154 00002A      154  int_error:
155 00002A 5670      155  rte
156
156      156
157 00002C      157  usb_interrupt:
158 00002C 01006DF0    158  push.l er0
159 000030 01006DF1    159  push.l er1
160 000034 01006DF2    160  push.l er2

```

```
161 000038 01006DF3    161  push.l er3
162 00003C 01006DF4    162  push.l er4
163 000040 01006DF5    163  push.l er5
164 000044 01006DF6    164  push.l er6
165 000048 5E000000    165  jsr @_usb_int
166 00004C 01006D76    166  pop.l er6
167 000050 01006D75    167  pop.l er5
168 000054 01006D74    168  pop.l er4
169 000058 01006D73    169  pop.l er3
170 00005C 01006D72    170  pop.l er2
171 000060 01006D71    171  pop.l er1
```

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PROGRAM NAME =

```
172 000064 01006D70    172  pop.l er0
173 000068 5670        173  rte
174                174
175 00006A        175  _ITU_OVI_0:
176 00006A 01006DF0    176  push.l er0
177 00006E 01006DF1    177  push.l er1
178 000072 01006DF2    178  push.l er2
179 000076 01006DF3    179  push.l er3
180 00007A 01006DF4    180  push.l er4
181 00007E 01006DF5    181  push.l er5
182 000082 01006DF6    182  push.l er6
183 000086 5E000000    183  jsr @_InterruptITU0
184 00008A 01006D76    184  pop.l er6
185 00008E 01006D75    185  pop.l er5
```

```

186 000092 01006D74      186  pop.l er4
187 000096 01006D73      187  pop.l er3
188 00009A 01006D72      188  pop.l er2
189 00009E 01006D71      189  pop.l er1
190 0000A2 01006D70      190  pop.l er0
191 0000A6 5670          191  rte
192
192          192
193          193 ;-----
194          194 ; 割り込み許可、禁止ルーチン
195
195          195
196          196 .EXPORT _EnableInterrupt,_DisableInterrupt
197 0000A8          197  _EnableInterrupt:
198 0000A8 063F          198  andc.b #H'3f,ccr
199 0000AA 5470          199  rts
200 0000AC          200  _DisableInterrupt:
201 0000AC 04C0          201  orc.b #H'c0,ccr
202 0000AE 5470          202  rts
203
203          203
204          204 ;-----
205 000000          205  .SECTION D,DATA
206
206          206
207 000000          207  .SECTION B,DATA
208 000000 00000002      208  DATA_END: .RES.W 1
209
209          209
210          210 .END

```

*****TOTAL ERRORS 0

*****TOTAL WARNINGS 0

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*** CROSS REFERENCE LIST

NAME	SECTION	ATTR	VALUE	SEQUENCE
B	B	SCT	00000000 207*	
D	D	SCT	00000000 205*	
DATA_END	B		00000000 142 208*	
IRQ0	V		00000030 33*	
IRQ1	V		00000034 35*	
IRQ2	V		00000038 37*	
IRQ3	V		0000003C 39*	
IRQ4	V		00000040 41*	
IRQ5	V		00000044 43*	
P	P	SCT	00000000 132*	
V	V	SCT	00000000 4*	
_DisableInterrupt	P	EXPT	000000AC 196 200*	
_EnableInterrupt	P	EXPT	000000A8 196 197*	
_INT_ADI	V		000000F0 129*	
_INT_CMI	V		00000054 51*	
_INT_DEND0A	V		000000B0 97*	
_INT_DEND0B	V		000000B4 99*	
_INT_DEND1A	V		000000B8 101*	
_INT_DEND1B	V		000000BC 103*	
_INT_ERI0	V		000000D0 113*	
_INT_ERI1	V		000000E0 121*	
_INT_IMIA0	V		00000060 57*	
_INT_IMIA1	V		00000070 65*	

_INT_IMIA2	V	00000080	73*
_INT_IMIA3	V	00000090	81*
_INT_IMIA4	V	000000A0	89*
_INT_IMIB0	V	00000064	59*
_INT_IMIB1	V	00000074	67*
_INT_IMIB2	V	00000084	75*
_INT_IMIB3	V	00000094	83*
_INT_IMIB4	V	000000A4	91*
_INT_NMI	V	0000001C	23*
_INT_OVI0	V	00000068	61*
_INT_OVI1	V	00000078	69*
_INT_OVI2	V	00000088	77*
_INT_OVI3	V	00000098	85*
_INT_OVI4	V	000000A8	93*
_INT_RXI0	V	000000D4	115*
_INT_RXI1	V	000000E4	123*
_INT_Reserved1	V	00000004	11*
_INT_Reserved18	V	00000048	45*
_INT_Reserved19	V	0000004C	47*
_INT_Reserved2	V	00000008	13*
_INT_Reserved22	V	00000058	53*
_INT_Reserved23	V	0000005C	55*
_INT_Reserved27	V	0000006C	63*
_INT_Reserved3	V	0000000C	15*
_INT_Reserved31	V	0000007C	71*
_INT_Reserved35	V	0000008C	79*
_INT_Reserved39	V	0000009C	87*
_INT_Reserved4	V	00000010	17*
_INT_Reserved43	V	000000AC	95*

_INT_Reserved48 V 000000C0 105*

_INT_Reserved49 V 000000C4 107*

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*** CROSS REFERENCE LIST

NAME	SECTION	ATTR	VALUE	SEQUENCE
_INT_Reserved5	V		00000014	19*
_INT_Reserved50	V		000000C8	109*
_INT_Reserved51	V		000000CC	111*
_INT_Reserved6	V		00000018	21*
_INT_TEI0	V		000000DC	119*
_INT_TEI1	V		000000EC	127*
_INT_TRAP1	V		00000020	25*
_INT_TRAP2	V		00000024	27*
_INT_TRAP3	V		00000028	29*
_INT_TRAP4	V		0000002C	31*
_INT_TXI0	V		000000D8	117*
_INT_TXI1	V		000000E8	125*
_INT_WOVI	V		00000050	49*
_ITU_OVI_0	P		0000006A	61 175*
_InterruptITU0		IMPT	00000000	7 183
_main		IMPT	00000000	5 151
_start	P		00000000	9 133*
_usb_int		IMPT	00000000	6 165
init_end	P		00000026	145 150*
init_loop	P		00000018	143* 149

```

int_error      P      0000002A  11  13  15  17  19  21  23  25  27  29  31  33
                35  37  39  41  45  47  49  51  53  55  57  59
                63  65  67  69  71  73  75  77  79  81  83  85
                87  89  91  93  95  97  99 101 103 105 107 109
                111 113 115 117 119 121 123 125 127 129 154*

```

```

usb_interrupt  P      0000002C  43 157*

```

```

*** H8/300H ASSEMBLER (Evaluation software) Ver.1.0 *** 03/11/18 15:11:13

```

```

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```

```

*** SECTION DATA LIST

```

SECTION	ATTRIBUTE	SIZE	START
V	ABS-CODE	00000F4	000000
P	REL-CODE	00000B0	
D	REL-DATA	0000000	
B	REL-DATA	0000002	

S00E0000635F7468726561644D4F54C8
S1130000000022A0000022A0000022A67
S1130010000022A0000022A0000022A2D
S1130020000022A0000022A0000022A1D
S10B0030000022A0000022A6D
S1130038000022A0000022A0000022C03
S1130048000022A0000022A0000022AF5
S1130058000022A0000022A0000022AE5
S10B0068000022A0000022AF5
S1130070000022A0000022A0000022ACD
S1130080000022A0000022A0000022ABD
S1130090000022A0000022A0000022AAD
S10B00A0000022A0000022AFD
S11300A8000022A0000022A0000022A95
S11300B8000022A0000022A0000022A85
S11300C8000022A0000022A0000022A75
S10B00D8000022A0000022AC5
S11300E0000022A0000022A0000022A5D
S10700F0000022ADD
S11302007A0700FFFF107A0000099C07A0100FF0F
S1130210E0007A0200FFE0101F92587000086C0B98
S1130220689B0B7140F25E0002B0567001006DF0E6
S113023001006DF101006DF201006DF301006DF439
S113024001006DF501006DF65E00527401006D76DC
S113025001006D7501006D7401006D7301006D7215
S113026001006D7101006D70567001006DF00100A9
S11302706DF101006DF201006DF301006DF40100F9
S11302806DF501006DF65E004C5401006D760100C2
S11302906D7501006D7401006D7301006D720100D5
S11302A06D7101006D705670063F547004C0547038
S11302B05E00638A7A370000000A790B0001193364
S11302C00FF47A0600FFE1C819550B5579257FFF16
S11302D04DF85C000F6A5E004DF05E004F700D3804
S11302E00D305C000EE60D380DB05C000EDE0D38EF
S11302F0790000025C000ED40D38790000035C0025
S11303000ECA5E0051167FF472507FF570505E0086
S113031002A80D3228F117506DF07A0000009A0000
S113032001006DF05E004E400B970B877A000000D2
S11303309A0F01006DF05E0050440B9718886EC849
S113034000036EC800026EC8000168C87A0000FF8F
S1130350E0465E0041FA5E004C807A0000007D060
S11303605E0047587900001E5E00484E0F857900F5
S1130370001F5E00484E01006FF000040FD05E00C6
S11303804A0A01006F7000045E004A0A01006B20F4
S113039000009C8A01006DF001006B2000009C8628
S11303A001006DF05E004C7C0B970B975E004A706A
S11303B07920000146D65E004C9A0FD05E0049D6E4
S11303C07A0100009A1B0D305E004CC27A000000D7
S11303D007D05E0047585E004C9A19550D505C00DB
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S11303F0660147540DB80D505C000DD00D5009B087
S11304006DF07A0000009A2C01006DF00FE05E00A1
S11304105C2C0B970B8701006DF67A0000009A3174
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S108046058D0FF785E97
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S1130475004FF468ED0DB10FE05E005AA85E005B16
S1130485CA0D004738790100400FE05E005B6C0D33
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S11304A59701006DF65E0050440B9701006DF65EF3
S11304B5004E400B970D510FE05E005AA80D2879A9
S11304C50000035C000D000D20795000010D021999
S11304D5550B55792527104DF85A0003DA54705EEC
S11304E500638A7A0500FFE01219665E004C9A19CB
S11304F5EE400E7A0100009A370D605E004CC20B88
S11305055E69501D0E4DEC7A0100009A390D605E4F
S1130515004CC27A0100009A3D0D605E004CC21981
S1130525EE400E7A0100009A370D605E004CC20B57
S11305355E6F5000021D0E4DEA7A0100009A3F0DD1
S1130545605E004CC25E00636854705E00638A7A25
S1130555370000000A7A03000000017A040000074F
S1130565D019550F8618886EF800036EF800026ED1
S1130575F8000168F869607920000146365C00FFE0
S11305855E7A0000FFE01269010B5169815E005B31
S1130595F217F07902000901D053207918000A797E
S11305A5000064528017F00F810FE05E0047EA5A9E
S11305B5000E5C69607920000246365C00FF207AF4
S11305C50000FFE01469010B5169815E005BF217BE
S11305D5F07902000901D053207918000A79000047
S11305E564528017F00F810FE05E0047EA5A000E50
S11305F55C69607920000B586000B601006F6000EC
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S10A06080000000146205E23
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S113063F9A7A0100009A540D505E004CC27A010061
S113064F009A5B0D505E004CC20FE05E004A385AB1
S113065F000E5C01006F6000127A20000000034659
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S113067FC27A01000005DC0FE05E00482E40240122
S113068F006F6000127A200000000446165E004CD3
S106069F9A7A0140
S11306A200009A770D505E004CC20FE05E004A389C
S11306B25A000E5C69607920000C586000A80100A2
S11306C26F6000127A200000000146205E004C9AFF
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S11308E60FA05E0049D67A0100009B320D505E00D0
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S1130985004CC20FC10FE05E00482E5A000E5C6991
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S1090A81E05E00482E5A5E
S1130A87000E5C01006F6000127A2000000002462E
S1130A973019DD0DD00B505E00484E0DD217F21002
S1130AA7321032010078A06BA000FFE01A0B5D79CA
S1130AB72D00024DDE0FB10FE05E00482E5A000DE8
S1130AC7FA01006F6000127A200000000346566B9C
S1130AD72000FFE0127920000D4D1A790000016B09
S1130AE7A000FFE01601006F6000120B7001006F9A
S1130AF7E0001240246B2000FFE0147920000D4D25
S1130B0718790000026BA000FFE01601006F600078
S1130B17120B7001006FE000120FB10FE05E004788

S1130B27EA5A000DFA01006F6000127A20000000F4
S1130B3704465A5E004C9A6B2000FFE016792000AA
S1130B4701460E7A0100009B520D505E004CC240D5
S1060B57186B20F5
S1130B5A00FFE01679200002460C7A0100009B632D
S1130B6A0D505E004CC201006B2000FFE01A5E00CC
S1130B7A49D601006B2000FFE01E5E0049D60FC173
S1130B8A0FE05E00482E5A000DFA01006F60001252
S1130B9A7A2000000005461C5E004C9A7A01000088
S1130BAA9A1B0D505E004CC20FC10FE05E00482E27
S1130BBA5A000DFA01006F6000127A200000000645
S10B0BCA461C5E004C9A7A01FF
S1130BD200009B740D505E004CC20FC10FE05E001B
S1130BE2482E5A000DFA01006F6000127A200000AD
S1130BF2000746365E004C9A19DD0DD07910000BC2
S1130C025E00484E0DD217F210321032010078A066
S1130C126BA000FFE0220B5D792D00044DDC0FB1C8
S1130C220FE05E00482E5A000DFA01006F600012B9
S1130C327A200000000846245E004A7079200002F0
S1130C42460E01006F6000120B7001006FE000128C
S1130C520FB10FE05E0047EA5A000DFA01006F6020
S1130C6200127A2000000009460C0FC10FE05E005B
S1130C72482E5A000DFA01006F6000127A2000001C
S1130C82000A461C5E004C9A7A0100009A1B0D5022
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LINK COMMAND LINE

LNK -subcommand=linkfile.sub

LINK SUBCOMMANDS

OUTPUT c_thread
 PRINT c_thread
 INPUT asmfile, main, EV_Simulator, EV_Controller, EV_Input, EV_OpenClose, EV_UpDown, EV_File,
 EV_Time, Timer, Panel, sci, lcd, usb
 LIB c:\h8\akic\c38hab
 START R(0FFE000), P(200), D(99C0), C(9A00)
 ROM (D, R)
 EXIT

*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	END	LENGTH
	UNIT NAME		MODULE NAME

ATTRIBUTE : CODE NOSHR

V	H'00000000	- H'000000F3	H'000000F4
		asmfile	asmfile
* TOTAL ADDRESS *			
	H'00000000	- H'000000F3	H'000000F4

ATTRIBUTE : CODE NOSHR

P	H'00000200	- H'000002AF	H'000000B0
		asmfile	asmfile
	H'000002B0	- H'0000126B	H'00000FBC
		main	main
	H'0000126C	- H'00001E8F	H'00000C24
		EV_Simulator	EV_Simulator
	H'00001E90	- H'0000280B	H'0000097C
		EV_Controller	EV_Controller
	H'0000280C	- H'00003149	H'0000093E
		EV_Input	EV_Input
	H'0000314A	- H'000039B1	H'00000868
		EV_OpenClose	EV_OpenClose
	H'000039B2	- H'000041F9	H'00000848
		EV_UpDown	EV_UpDown

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H'000041FA - H'000045ED H'000003F4
              EV_File              EV_File
H'000045EE - H'00004745 H'00000158
              EV_Time              EV_Time
H'00004746 - H'00004C99 H'00000554
              Timer                Timer
H'00004C9A - H'00004DEF H'00000156
              Panel                Panel
H'00004DF0 - H'00004EC1 H'000000D2
              sci                  sci
H'00004EC2 - H'000050FF H'0000023E
              lcd                  lcd
H'00005100 - H'00005BF1 H'00000AF2
              usb                  usb
H'00005BF2 - H'00005C2B H'0000003A
              rand                 rand
H'00005C2C - H'00005C89 H'0000005E
              sprintf              sprintf
H'00005C8A - H'00005CB3 H'0000002A
              strcmp               strcmp
H'00005CB4 - H'00005CCF H'0000001C
              strcpy               strcpy
H'00005CD0 - H'00005CEB H'0000001C
              strlen               strlen

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	END	LENGTH
	UNIT NAME	MODULE NAME	

ATTRIBUTE : CODE NOSHR

P	H'00005CEC	- H'00005D1B	H'00000030
		vsprintf	vsprintf
	H'00005D1C	- H'00005FF5	H'000002DA
		addd3	addd3
	H'00005FF6	- H'00006227	H'00000232
		divd3	divd3
	H'00006228	- H'000062A1	H'0000007A
		dtd3	dtd3
	H'000062A2	- H'000062AD	H'0000000C
		eqd3	eqd3
	H'000062AE	- H'000062BD	H'00000010
		ged3	ged3
	H'000062BE	- H'000062CD	H'00000010
		ltd3	ltd3
	H'000062CE	- H'00006313	H'00000046
		ltod3	ltod3
	H'00006314	- H'00006331	H'0000001E
		mv83	mv83
	H'00006332	- H'00006359	H'00000028

H'0000635A	-	mvn3 H'00006367	mvn3 H'0000000E
H'00006368	-	ned3 H'00006389	ned3 H'00000022
H'0000638A	-	spregld3 H'000063B1	spregld3 H'00000028
H'000063B2	-	spregsv3 H'0000815F	spregsv3 H'00001DAE
H'00008160	-	_fmtout H'0000821B	_fmtout H'000000BC
H'0000821C	-	cmpd3 H'00008241	cmpd3 H'00000026
H'00008242	-	divl3 H'00008261	divl3 H'00000020
H'00008262	-	mull3 H'00008647	mull3 H'000003E6
H'00008648	-	_dti H'000087EB	_dti H'000001A4
H'000087EC	-	_its H'00008845	_its H'0000005A
H'00008846	-	memcpy H'00008881	memcpy H'0000003C
H'00008882	-	divul3 H'000088A9	divul3 H'00000028
H'000088AA	-	_allzero H'000089A1	_allzero H'000000F8
		_calcpw	_calcpw

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	-	END	LENGTH	MODULE NAME
	UNIT NAME				

ATTRIBUTE : CODE NOSHR

P	H'000089A2	-	H'00008A45	H'000000A4	
	_log10			_log10	
	H'00008A46	-	H'00008ABD	H'00000078	
	_lsfts			_lsfts	
	H'00008ABE	-	H'00008AEB	H'0000002E	
	_pow5			_pow5	
	H'00008AEC	-	H'00008B65	H'0000007A	
	_rsfts			_rsfts	
	H'00008B66	-	H'00008C11	H'000000AC	
	_sub			_sub	
	H'00008C12	-	H'00008CB5	H'000000A4	
	_unpack			_unpack	
	H'00008CB6	-	H'00008CF3	H'0000003E	
	memcmp			memcmp	
	H'00008CF4	-	H'00008D7B	H'00000088	
	_mult64			_mult64	

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H'00008D7C - H'00008EDD H'00000162
              _power                _power
H'00008EDE - H'00008FC7 H'000000EA
              _rnd                  _rnd
H'00008FC8 - H'00009063 H'0000009C
              _setsbit              _setsbit
H'00009064 - H'00009169 H'00000106
              frexp                  frexp
H'0000916A - H'0000929F H'00000136
              modf                   modf
H'000092A0 - H'000092C1 H'00000022
              dslc3                  dslc3
H'000092C2 - H'000092E3 H'00000022
              dsruc3                 dsruc3
H'000092E4 - H'00009319 H'00000036
              itod3                  itod3
H'0000931A - H'00009607 H'000002EE
              muld3                   muld3
H'00009608 - H'00009659 H'00000052
              _duchek                 _duchek
H'0000965A - H'000096AB H'00000052
              _lsft                   _lsft
H'000096AC - H'00009839 H'0000018E
              _mult                   _mult
H'0000983A - H'000098D5 H'0000009C
              _pow10                  _pow10
H'000098D6 - H'0000991D H'00000048
              _add                    _add
H'0000991E - H'0000994D H'00000030
              memset                  memset

```

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START	END	LENGTH
	UNIT NAME	MODULE NAME	

* TOTAL ADDRESS * H'00000200 - H'0000994D H'0000974E

ATTRIBUTE : DATA NOSHR ROM

D	H'000099C0	- H'000099C0	H'00000000
		asmfile	asmfile
	H'000099C0	- H'000099CF	H'00000010
		usb	usb

* TOTAL ADDRESS * H'000099C0 - H'000099CF H'00000010

ATTRIBUTE : DATA NOSHR

C	H'00009A00	- H'00009C8D	H'0000028E
---	------------	--------------	------------

	main	main
H'00009C8E	- H'00009DE8	H'0000015B
	EV_Simulator	EV_Simulator
H'00009DEA	- H'00009E11	H'00000028
	EV_Controller	EV_Controller
H'00009E12	- H'00009E77	H'00000066
	EV_Input	EV_Input
H'00009E78	- H'00009EC3	H'0000004C
	EV_OpenClose	EV_OpenClose
H'00009EC4	- H'00009F06	H'00000043
	EV_UpDown	EV_UpDown
H'00009F08	- H'00009F79	H'00000072
	EV_File	EV_File
H'00009F7A	- H'00009F81	H'00000008
	EV_Time	EV_Time
H'00009F82	- H'00009FB9	H'00000038
	Timer	Timer
H'00009FBA	- H'00009FC4	H'0000000B
	Panel	Panel
H'00009FC6	- H'0000A07F	H'000000BA
	usb	usb
H'0000A080	- H'0000A087	H'00000008
	_fmtout	_fmtout
H'0000A088	- H'0000A187	H'00000100
	_ctype	_ctype
H'0000A188	- H'0000A20F	H'00000088
	_its	_its
H'0000A210	- H'0000A217	H'00000008
	_log10	_log10
H'0000A218	- H'0000A2F7	H'000000E0
	_pow5	_pow5
H'0000A2F8	- H'0000A3FB	H'00000104
	_power	_power

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*** LINKAGE EDITOR LINK MAP LIST ***

SECTION NAME	START - END	LENGTH
	UNIT NAME	MODULE NAME

ATTRIBUTE : DATA NOSHR

C	H'0000A3FC - H'0000A403	H'00000008
	frexp	frexp
	H'0000A404 - H'0000A40B	H'00000008
	modf	modf

* TOTAL ADDRESS * H'00009A00 - H'0000A40B H'00000A0C

ATTRIBUTE : DATA NOSHR RAM

```

R          H'00FFE000 - H'00FFE000 H'00000000
           asmfile          asmfile
H'00FFE000 - H'00FFE00F H'00000010
           usb              usb
* TOTAL ADDRESS *          H'00FFE000 - H'00FFE00F H'00000010

```

ATTRIBUTE : DATA NOSHR

```

B          H'00FFE010 - H'00FFE011 H'00000002
           asmfile          asmfile
H'00FFE012 - H'00FFE207 H'000001F6
           main             main
H'00FFE208 - H'00FFE21B H'00000014
           EV_File         EV_File
H'00FFE21C - H'00FFE43F H'00000224
           Timer           Timer
H'00FFE440 - H'00FFE4BF H'00000080
           Panel           Panel
H'00FFE4C0 - H'00FFE50F H'00000050
           sci              sci
H'00FFE510 - H'00FFE54F H'00000040
           lcd              lcd
H'00FFE550 - H'00FFE823 H'000002D4
           usb              usb
H'00FFE824 - H'00FFE85F H'0000003C
           _fmtout         _fmtout
H'00FFE860 - H'00FFE863 H'00000004
           _rnext          _rnext
H'00FFE864 - H'00FFE865 H'00000002
           _errno          _errno
* TOTAL ADDRESS *          H'00FFE010 - H'00FFE865 H'00000856

```

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

SYMBOL NAME	ADDR	TYPE
\$ADDD\$3	H'00005DE6	DAT
\$CMPD\$3	H'00008160	DAT
\$DIVD\$3	H'00006090	DAT
\$DIVL\$3	H'0000821C	DAT
\$DIVUL\$3	H'00008846	DAT
\$DSL\$3	H'000092A0	DAT
\$DSRUC\$3	H'000092C2	DAT
\$DTOL\$3	H'00006228	DAT
\$EQD\$3	H'000062A2	DAT
\$GED\$3	H'000062AE	DAT
\$ITOD\$3	H'000092E4	DAT
\$LTD\$3	H'000062BE	DAT
\$LTOD\$3	H'000062CE	DAT
\$MULD\$3	H'000093D0	DAT

\$MULL\$3	H'00008242	DAT
\$MV8\$3	H'00006314	DAT
\$MVN\$3	H'00006332	DAT
\$NED\$3	H'0000635A	DAT
\$SUBD\$3	H'00005DB6	DAT
\$sp_regld\$3	H'00006368	DAT
\$sp_regsv\$3	H'0000638A	DAT
_Checkfmove	H'00004708	ENT
_Clear	H'00004C9A	ENT
_ClearLCD	H'00004FE0	ENT
_Close	H'0000396A	ENT
_CloseMotor	H'0000341E	ENT
_Cnt	H'00FFE012	DAT
_Command_Read	H'00004404	ENT
_Command_Write	H'00004450	ENT
_Destroy	H'000010D6	ENT
_DisableInterrupt	H'000002AC	DAT
_Disp	H'0000177A	ENT
_DispInput	H'0000172A	ENT
_DispUSBPort	H'00005210	ENT
_Door	H'0000314A	ENT
_Down	H'000041B2	ENT
_DownMotor	H'00003C86	ENT
_EV_Controller	H'00001E90	ENT
_EV_File	H'0000424E	ENT
_EV_Input	H'00002878	ENT
_EV_Simulator	H'0000126C	ENT
_EV_Time	H'000045EE	ENT
_EnableInterrupt	H'000002A8	DAT
_GetChar	H'0000280C	ENT
_GetCurrentTime	H'00004650	ENT
_GetPermit	H'000046EA	ENT
_GetSCI	H'00004E20	ENT
_GetSW	H'0000121A	ENT
_H8init	H'00001240	ENT
_Init	H'00000E68	ENT
_InitITU	H'00004C1E	ENT

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

SYMBOL NAME	ADDR	TYPE
_InitLCD	H'00004F70	ENT
_InitSCI	H'00004DF0	ENT
_InitUSB	H'00005116	ENT
_InterruptITU0	H'00004C54	ENT
_LCDOut4	H'00004F18	ENT
_Limit_Read	H'000045AA	ENT
_LocateLCD	H'00005020	ENT
_Motor_Read	H'0000455C	ENT
_Motor_Write	H'00004524	ENT
_OnCloseMotor	H'0000343A	ENT
_OnController	H'00002030	ENT

_OnDownMotor	H'00003CA2	ENT
_OnInitWaitDoorChangeLog	H'000036A6	ENT
_OnInitWaitPositionChangeLog	H'00003F00	ENT
_OnInput	H'000029A4	ENT
_OnOpenMotor	H'000031DA	ENT
_OnSimulator	H'00001356	ENT
_OnUpMotor	H'00003A42	ENT
_OnWaitCloseDoorChangeLog	H'0000384E	ENT
_OnWaitDownPositionChangeLog	H'0000409C	ENT
_OnWaitOpenDoorChangeLog	H'0000377A	ENT
_OnWaitUpPositionChangeLog	H'00003FCE	ENT
_Open	H'00003922	ENT
_OpenMotor	H'000031BE	ENT
_PermitCommand_Read	H'00004374	ENT
_PermitCommand_Write	H'000043C0	ENT
_PermitTurnOpen_Read	H'00004494	ENT
_PermitTurnOpen_Write	H'000044E0	ENT
_Position	H'000039B2	ENT
_Printf	H'00004CC2	ENT
_PrintLCD	H'00005044	ENT
_PrintSCI	H'00004E40	ENT
_PutLCD	H'00004FF4	ENT
_PutSCI	H'00004E10	ENT
_Read	H'000042E2	ENT
_ReadString	H'0000433C	ENT
_Repaint	H'000004E4	ENT
_Run	H'00000550	ENT
_ScanSCI	H'00004E30	ENT
_SetCurrentTime	H'00004632	ENT
_SetLED	H'000011CC	ENT
_SetPermit	H'000046B6	ENT
_SleepMSec	H'00004758	ENT
_Start	H'00004A0A	ENT
_Stop	H'00004A38	ENT
_Thread_Start	H'00004AD0	ENT
_Thread_Toggle	H'00004B0E	ENT
_Thread_checkAllDelete	H'00004A56	ENT
_Thread_checkStayAnother	H'00004A70	ENT
_Thread_getThread	H'00004A96	ENT
_Up	H'0000416A	ENT

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

SYMBOL NAME	ADDR	TYPE
_UpMotor	H'00003A26	ENT
_WaitDoorChangeLog	H'0000367E	ENT
_WaitPositionChangeLog	H'00003EE6	ENT
_WaitSecond	H'00004694	ENT
_Wait_ms	H'0000472A	ENT
_Write	H'00004258	ENT
_WriteString	H'000042AA	ENT
__add	H'000098D6	ENT

__allzero	H'00008882	ENT
__calcnpw	H'000088AA	ENT
__ctype	H'0000A088	DAT
__dti	H'00008262	ENT
__duchek	H'00009608	ENT
__errno	H'00FFE864	DAT
__fmtout	H'000063B2	ENT
__its	H'00008648	ENT
__log10	H'000089A2	ENT
__lsft	H'0000965A	ENT
__lsfts	H'00008A46	ENT
__mult	H'000096AC	ENT
__mult64	H'00008CF4	ENT
__pow10	H'0000983A	ENT
__pow5	H'00008ABE	ENT
__power	H'00008D7C	ENT
__rnd	H'00008EDE	ENT
__rnext	H'00FFE860	DAT
__rsfts	H'00008AEC	ENT
__setsbit	H'00008FC8	ENT
__sub	H'00008B66	ENT
__unpack	H'00008C12	ENT
_cntl	H'00FFE088	DAT
_countUpNextRun	H'0000482E	ENT
delete	H'000049D6	ENT
_frexp	H'00009064	ENT
_getClock	H'00004746	ENT
_get_inbufflen	H'00005BCA	ENT
_get_outbufflen	H'00005BDE	ENT
_i_cnt	H'00FFE016	DAT
_in	H'00FFE04A	DAT
_initWOVI	H'00004C80	ENT
_init_usbbuff	H'00005A2E	ENT
_j_cnt	H'00FFE018	DAT
_main	H'000002B0	ENT
_memcmp	H'00008CB6	ENT
_memcpy	H'000087EC	ENT
_memset	H'0000991E	ENT
_modf	H'0000916A	ENT
_new_EV_Status	H'000041FA	ENT
_new_Thread	H'0000484E	ENT
_nextRun	H'000047EA	ENT
_rand	H'00005BF2	ENT

H8/300H LINKAGE EDITOR (Evaluation software) Ver.1.0 PAGE : 4

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

SYMBOL NAME	ADDR	TYPE
_read_buff	H'00005B6C	ENT
_read_outbuff	H'00005B0E	ENT
_s	H'00FFE046	DAT
_simu	H'00FFE180	DAT
_sprintf	H'00005C2C	ENT

_status	H'00FFE208	DAT
_strcmp	H'00005C8A	ENT
_strcpy	H'00005CB4	ENT
_strlen	H'00005CD0	ENT
_th	H'00FFE01A	DAT
_th1	H'00FFE022	DAT
_th101	H'00FFE260	DAT
_th102	H'00FFE27E	DAT
_th111	H'00FFE29C	DAT
_th112	H'00FFE2BA	DAT
_th113	H'00FFE2D8	DAT
_th114	H'00FFE2F6	DAT
_th119	H'00FFE314	DAT
_th120	H'00FFE332	DAT
_th121	H'00FFE350	DAT
_th122	H'00FFE36E	DAT
_th123	H'00FFE38C	DAT
_th130	H'00FFE3AA	DAT
_th131	H'00FFE3C8	DAT
_th141	H'00FFE3E6	DAT
_th142	H'00FFE404	DAT
_th143	H'00FFE422	DAT
_th19	H'00FFE032	DAT
_th20	H'00FFE036	DAT
_th41	H'00FFE03A	DAT
_th42	H'00FFE03E	DAT
_th43	H'00FFE042	DAT
_usb_int	H'00005274	ENT
_vsprintf	H'00005CEC	ENT
_wovi	H'00004C7C	ENT
_woviClock	H'00FFE21C	DAT
_woviInit	H'00004BEC	ENT
_woviRun	H'00004B52	ENT
_woviThreadFirst	H'00FFE224	DAT
_woviThreadLast	H'00FFE242	DAT
_write_buff	H'00005AA8	ENT
_write_inbuff	H'00005A4C	ENT

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```
bcc32 -O2 -w -tWC -D"USE_BCC" -c Panel.c
```

Borland C++ 5.5.1 for Win32 Copyright (c) 1993, 2000 Borland

Panel.c:

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c Timer.c
```

Borland C++ 5.5.1 for Win32 Copyright (c) 1993, 2000 Borland

Timer.c:

警告 W8057 Timer.c 393: パラメータ 'threadPerSec' は一度も使用されない(関数 wovi)

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c EV_Time.c
```

Borland C++ 5.5.1 for Win32 Copyright (c) 1993, 2000 Borland

EV_Time.c:

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c EV_File.c
```

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EV_File.c:

警告 W8004 EV_File.c 74: 'Ret' に代入した値は使われていない(関数 Write)

警告 W8004 EV_File.c 108: 'Ret' に代入した値は使われていない(関数 WriteString)

警告 W8071 EV_File.c 166: 変換によって有効桁が失われる(関数 Read)

警告 W8004 EV_File.c 162: 'Ret' に代入した値は使われていない(関数 Read)

警告 W8004 EV_File.c 203: 'Ret' に代入した値は使われていない(関数 ReadString)

警告 W8004 EV_File.c 229: 'Ret' に代入した値は使われていない(関数 PermitCommand_Read)

警告 W8004 EV_File.c 247: 'Ret' に代入した値は使われていない(関数 PermitCommand_Write)

警告 W8004 EV_File.c 265: 'Ret' に代入した値は使われていない(関数 Command_Read)

警告 W8004 EV_File.c 283: 'Ret' に代入した値は使われていない(関数 Command_Write)

警告 W8004 EV_File.c 301: 'Ret' に代入した値は使われていない(関数 PermitTurnOpen_Read)

警告 W8004 EV_File.c 319: 'Ret' に代入した値は使われていない(関数 PermitTurnOpen_Write)

警告 W8066 EV_File.c 343: 実行されないコード(関数 Motor_Write)

警告 W8066 EV_File.c 364: 実行されないコード(関数 Motor_Read)

警告 W8066 EV_File.c 367: 実行されないコード(関数 Motor_Read)

警告 W8066 EV_File.c 382: 実行されないコード(関数 Limit_Read)

警告 W8066 EV_File.c 385: 実行されないコード(関数 Limit_Read)

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c EV_UpDown.c
```

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EV_UpDown.c:

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c EV_OpenClose.c
```

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EV_OpenClose.c:

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c EV_Input.c
```

Borland C++ 5.5.1 for Win32 Copyright (c) 1993, 2000 Borland

EV_Input.c:

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c EV_Controller.c
```

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EV_Controller.c:

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c EV_Simulator.c
```

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EV_Simulator.c:

警告 W8019 EV_Simulator.c 68: コードは効果を持たない(関数 OnSimulator)

警告 W8019 EV_Simulator.c 86: コードは効果を持たない(関数 OnSimulator)

警告 W8019 EV_Simulator.c 104: コードは効果を持たない(関数 OnSimulator)

警告 W8019 EV_Simulator.c 122: コードは効果を持たない(関数 OnSimulator)

```
bcc32 -O2 -w -tWC -D"USE_BCC" -c main.c
```

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main.c:

警告 W8004 main.c 291: 'key' に代入した値は使われていない(関数 Run)

```
ilink32 /Tpe -L"C:¥borland¥bcc55¥Lib" Panel.obj Timer.obj EV_Time.obj EV_File.obj
```

```
EV_UpDown.obj EV_OpenClose.obj EV_Input.obj EV_Controller.obj EV_Simulator.obj main.obj
```

```
c0x32.obj,main.exe,,cw32.lib import32.lib
```

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del *.obj

del main.tds

del main.ilc

del main.ild

del main.ilf

del main.ils

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

*****TOTAL ERRORS 0

*****TOTAL WARNINGS 0

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

: OUTPUT c_thread

: PRINT c_thread

: INPUT asmfile, main, EV_Simulator, EV_Controller, EV_Input, EV_OpenClose, EV_UpDown, EV_File,
EV_Time, Timer, Panel, sci, lcd, usb

: LIB c:\h8\akic\c38hab

: START R(0FFE000), P(200), D(99C0), C(9A00)

: ROM (D, R)

: EXIT

LINKAGE EDITOR COMPLETED

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

OBJECT CONVERTER COMPLETED

著作者:

しのみや ひでみね

篠宮 英峰