#ifndef CAN\_INIT\_H

#define CAN\_INIT\_H

#include "ControlCAN.h"

#include "QString"

//命令

VCI\_INIT\_CONFIG CANinitData = {0,0xffffffff,0,0,0x01,0x1c,0}; //CAN初始化命令 100kbit/s

VCI\_CAN\_OBJ StartMonitor = {0,0,0,0,0,0,1,{1},{0}}; //1 //开始

VCI\_CAN\_OBJ PeriodCheck = {0,0,0,0,0,0,1,{2},{0}}; //2

VCI\_CAN\_OBJ DisplayData = {0,0,0,0,0,0,1,{3},{0}}; //3 读取当前数据

VCI\_CAN\_OBJ ReadReg = {0,0,0,0,0,0,1,{4},{0}}; //5

VCI\_CAN\_OBJ Break = {0,0,0,0,0,0,1,{5},{0}}; //6

VCI\_CAN\_OBJ RecData[6]; //电压和温度一共5帧，控制寄存器4帧

VCI\_CAN\_STATUS CANregStatus;

VCI\_CAN\_OBJ RecVol[4]; //接收电压帧

VCI\_CAN\_OBJ RecTemp; //接收温度帧

VCI\_CAN\_OBJ openCheck; //开路检查帧

VCI\_ERR\_INFO CANerr;

int Display\_Vol[16]; //存储待显示电压数据

int Display\_Temp[8]; //待显示温度数据

int DisplayFlag = 0; //显示类型标志

QString Display\_Open[2]; //待显示开路状态

#endif // CAN\_INIT\_H

#ifndef CONTROLCAN\_H

#define CONTROLCAN\_H

#include "windows.h"

//接口卡类型定义

#define VCI\_PCI5121 1

#define VCI\_PCI9810 2

#define VCI\_USBCAN1 3

#define VCI\_USBCAN2 4

#define VCI\_USBCAN2A 4

#define VCI\_PCI9820 5

#define VCI\_CAN232 6

#define VCI\_PCI5110 7

#define VCI\_CANLITE 8

#define VCI\_ISA9620 9

#define VCI\_ISA5420 10

#define VCI\_PC104CAN 11

#define VCI\_CANETUDP 12

#define VCI\_CANETE 12

#define VCI\_DNP9810 13

#define VCI\_PCI9840 14

#define VCI\_PC104CAN2 15

#define VCI\_PCI9820I 16

#define VCI\_CANETTCP 17

#define VCI\_PEC9920 18

#define VCI\_PCIE\_9220 18

#define VCI\_PCI5010U 19

#define VCI\_USBCAN\_E\_U 20

#define VCI\_USBCAN\_2E\_U 21

#define VCI\_PCI5020U 22

#define VCI\_EG20T\_CAN 23

#define VCI\_PCIE9221 24

//CAN错误码

#define ERR\_CAN\_OVERFLOW 0x0001 //CAN控制器内部FIFO溢出

#define ERR\_CAN\_ERRALARM 0x0002 //CAN控制器错误报警

#define ERR\_CAN\_PASSIVE 0x0004 //CAN控制器消极错误

#define ERR\_CAN\_LOSE 0x0008 //CAN控制器仲裁丢失

#define ERR\_CAN\_BUSERR 0x0010 //CAN控制器总线错误

#define ERR\_CAN\_BUSOFF 0x0020 //总线关闭错误

//通用错误码

#define ERR\_DEVICEOPENED 0x0100 //设备已经打开

#define ERR\_DEVICEOPEN 0x0200 //打开设备错误

#define ERR\_DEVICENOTOPEN 0x0400 //设备没有打开

#define ERR\_BUFFEROVERFLOW 0x0800 //缓冲区溢出

#define ERR\_DEVICENOTEXIST 0x1000 //此设备不存在

#define ERR\_LOADKERNELDLL 0x2000 //装载动态库失败

#define ERR\_CMDFAILED 0x4000 //执行命令失败错误码

#define ERR\_BUFFERCREATE 0x8000 //内存不足

//函数调用返回状态值

#define STATUS\_OK 1

#define STATUS\_ERR 0

#define CMD\_DESIP 0

#define CMD\_DESPORT 1

#define CMD\_CHGDESIPANDPORT 2

#define CMD\_SRCPORT 2

#define CMD\_TCP\_TYPE 4 //tcp 工作方式，服务器:1 或是客户端:0

#define TCP\_CLIENT 0

#define TCP\_SERVER 1

//服务器方式下有效

#define CMD\_CLIENT\_COUNT 5 //连接上的客户端计数

#define CMD\_CLIENTS 6 //连接上的客户端

#define CMD\_DISCONN\_CLINET 7 //断开一个连接

typedef struct tagRemoteClient{

int iIndex;

DWORD port;

HANDLE hClient;

char szip[32];

}REMOTE\_CLIENT;

//1.ZLGCAN系列接口卡信息的数据类型。

typedef struct \_VCI\_BOARD\_INFO{

USHORT hw\_Version;

USHORT fw\_Version;

USHORT dr\_Version;

USHORT in\_Version;

USHORT irq\_Num;

BYTE can\_Num;

CHAR str\_Serial\_Num[20];

CHAR str\_hw\_Type[40];

USHORT Reserved[4];

} VCI\_BOARD\_INFO,\*PVCI\_BOARD\_INFO;

//2.定义CAN信息帧的数据类型。

typedef struct \_VCI\_CAN\_OBJ{

UINT ID;

UINT TimeStamp;

BYTE TimeFlag;

BYTE SendType;

BYTE RemoteFlag;//是否是远程帧

BYTE ExternFlag;//是否是扩展帧

BYTE DataLen;

BYTE Data[8];

BYTE Reserved[3];

}VCI\_CAN\_OBJ,\*PVCI\_CAN\_OBJ;

//3.定义CAN控制器状态的数据类型。

typedef struct \_VCI\_CAN\_STATUS{

UCHAR ErrInterrupt;

UCHAR regMode;

UCHAR regStatus;

UCHAR regALCapture;

UCHAR regECCapture;

UCHAR regEWLimit;

UCHAR regRECounter;

UCHAR regTECounter;

DWORD Reserved;

}VCI\_CAN\_STATUS,\*PVCI\_CAN\_STATUS;

//4.定义错误信息的数据类型。

typedef struct \_VCI\_ERR\_INFO{

UINT ErrCode;

BYTE Passive\_ErrData[3];

BYTE ArLost\_ErrData;

} VCI\_ERR\_INFO,\*PVCI\_ERR\_INFO;

//5.定义初始化CAN的数据类型

typedef struct \_VCI\_INIT\_CONFIG{

DWORD AccCode;

DWORD AccMask;

DWORD Reserved;

UCHAR Filter;

UCHAR Timing0;

UCHAR Timing1;

UCHAR Mode;

}VCI\_INIT\_CONFIG,\*PVCI\_INIT\_CONFIG;

typedef struct \_tagChgDesIPAndPort

{

char szpwd[10];

char szdesip[20];

int desport;

BYTE blistenonly;

}CHGDESIPANDPORT;

///////// new add struct for filter /////////

typedef struct \_VCI\_FILTER\_RECORD{

DWORD ExtFrame; //是否为扩展帧

DWORD Start;

DWORD End;

}VCI\_FILTER\_RECORD,\*PVCI\_FILTER\_RECORD;

#define EXTERNC extern "C"

EXTERNC DWORD \_\_stdcall VCI\_OpenDevice(DWORD DeviceType,DWORD DeviceInd,DWORD Reserved);

EXTERNC DWORD \_\_stdcall VCI\_CloseDevice(DWORD DeviceType,DWORD DeviceInd);

EXTERNC DWORD \_\_stdcall VCI\_InitCAN(DWORD DeviceType, DWORD DeviceInd, DWORD CANInd, PVCI\_INIT\_CONFIG pInitConfig);

EXTERNC DWORD \_\_stdcall VCI\_ReadBoardInfo(DWORD DeviceType,DWORD DeviceInd,PVCI\_BOARD\_INFO pInfo);

EXTERNC DWORD \_\_stdcall VCI\_ReadErrInfo(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd,PVCI\_ERR\_INFO pErrInfo);

EXTERNC DWORD \_\_stdcall VCI\_ReadCANStatus(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd,PVCI\_CAN\_STATUS pCANStatus);

EXTERNC DWORD \_\_stdcall VCI\_GetReference(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd,DWORD RefType,PVOID pData);

EXTERNC DWORD \_\_stdcall VCI\_SetReference(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd,DWORD RefType,PVOID pData);

EXTERNC ULONG \_\_stdcall VCI\_GetReceiveNum(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd);

EXTERNC DWORD \_\_stdcall VCI\_ClearBuffer(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd);

EXTERNC DWORD \_\_stdcall VCI\_StartCAN(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd);

EXTERNC DWORD \_\_stdcall VCI\_ResetCAN(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd);

EXTERNC ULONG \_\_stdcall VCI\_Transmit(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd,PVCI\_CAN\_OBJ pSend,ULONG Len);

EXTERNC ULONG \_\_stdcall VCI\_Receive(DWORD DeviceType,DWORD DeviceInd,DWORD CANInd,PVCI\_CAN\_OBJ pReceive,ULONG Len,INT WaitTime=-1);

#endif

#ifndef LTC6804\_H

#define LTC6804\_H

#include <QString>

struct ConReg{

byte GPIO;

byte REFON;

byte SWTRD;

byte DCTO;

byte ADCOPT;

quint16 VUV;

quint16 VOV;

quint16 DCC;

}ConReg[2];

#endif // LTC6804\_H

#ifndef MAINWINDOW\_H

#define MAINWINDOW\_H

#include <QMainWindow>

//系统时间和计时器

#include <qdatetime.h>

#include <QTimer>

namespace Ui {

class MainWindow;

}

class MainWindow : public QMainWindow

{

Q\_OBJECT

public:

explicit MainWindow(QWidget \*parent = 0);

~MainWindow();

public slots:

void display(int);

private slots:

void on\_congdian\_clicked();

void on\_tingzhicongdian\_clicked();

void timerUpdate(void); //更新当前时间函数

int on\_connectCAN\_clicked(); //CAN连接按钮

int on\_Measure\_clicked(); //测量按钮

void on\_startMeasure\_2\_clicked(); //开始策略

private:

Ui::MainWindow \*ui;

QTimer \*timer = new QTimer(this);

};

#endif // MAINWINDOW\_H

#ifndef WORKTHREAD\_H

#define WORKTHREAD\_H

#include <QThread>

class CAN\_rec\_thread: public QThread

{

Q\_OBJECT

public:

CAN\_rec\_thread();

signals:

void display\_signal(int);

protected:

void run();

};

/\*class CAN\_sen\_thread: public QThread

{

Q\_OBJECT

public:

CAN\_sen\_thread();

protected:

void run();

};

class display\_thread: public QThread

{

Q\_OBJECT

public:

display\_thread();

protected:

void run();

};\*/

#endif // WORKTHREAD\_H

#include "mainwindow.h"

#include <QApplication>

int main(int argc, char \*argv[])

{

QApplication a(argc, argv);

MainWindow w;

w.show();

return a.exec();

}

#include "mainwindow.h"

#include "ui\_mainwindow.h"

#include "ControlCAN.h"

#include "can\_init.h"

#include "workthread.h"

#include <QMessageBox>

//线程类实例化

CAN\_rec\_thread CANrecThread;

//CAN\_sen\_thread CANsenThread;

//display\_thread DisplayThread;

bool Measure\_OK = FALSE; //测量线程开始/结束判断

bool ConReg\_check = FALSE;

QString GPIO[2];

QString REFON[2];

QString SWTRD[2];

QString DCTO[2];

QString ADCOPT[2];

QString VUV[2];

QString VOV[2];

QString DCC[2];

MainWindow::MainWindow(QWidget \*parent) :

QMainWindow(parent),

ui(new Ui::MainWindow)

{

ui->setupUi(this);

ui->Measure->setDisabled(true); //不允许进行检测和测量

ui->openCheck1->display("00000000"); //初始化显示

ui->openCheck2->display("00000000");

//信号和槽函数连接

connect(ui->chongdianButton,SIGNAL(clicked()),this,SLOT(on\_congdian\_clicked())); //时间更新槽

connect(ui->tingzhiButton,SIGNAL(clicked()),this,SLOT(on\_tingzhicongdian\_clicked())); //时间更新槽

connect(timer,SIGNAL(timeout()),this,SLOT(timerUpdate())); //时间更新槽

connect(&CANrecThread,SIGNAL(display\_signal(int)),this,SLOT(display(int))); //信号触发显示函数

timer->start(1000); //开始计时

}

MainWindow::~MainWindow()

{

delete ui;

}

/\*\*\*\*\*\*\*时间采集部分\*\*\*\*\*\*\*/

void MainWindow::timerUpdate(void)

{

QDateTime time = QDateTime::currentDateTime();

QString str = time.toString("yyyy-MM-dd hh:mm:ss dddd");

ui->CurrentTime->setText(str);

}

/\*\*\*\*\*\*\*\*\*显示部分\*\*\*\*\*\*\*\*\*\*/

void MainWindow::display(int a)

{

switch(a)

{

case 0:

break;

case 1:

ui->currentStatus->setText(tr("接收数据出错（1）"));

break;

case 2:

ui->currentStatus->setText(tr("接收数据出错（2）"));

break;

case 3:

ui->currentStatus->setText(tr("正在测量..."));

ui->lcdVol1\_1->display(Display\_Vol[0]); //显示数据

ui->lcdVol1\_2->display(Display\_Vol[1]);

ui->lcdVol1\_3->display(Display\_Vol[2]);

ui->lcdVol1\_4->display(Display\_Vol[3]);

ui->lcdVol1\_5->display(Display\_Vol[4]);

ui->lcdVol1\_6->display(Display\_Vol[5]);

ui->lcdVol1\_7->display(Display\_Vol[6]);

ui->lcdVol1\_8->display(Display\_Vol[7]);

ui->lcdVol2\_1->display(Display\_Vol[8]); //显示数据

ui->lcdVol2\_2->display(Display\_Vol[9]);

ui->lcdVol2\_3->display(Display\_Vol[10]);

ui->lcdVol2\_4->display(Display\_Vol[11]);

ui->lcdVol2\_5->display(Display\_Vol[12]);

ui->lcdVol2\_6->display(Display\_Vol[13]);

ui->lcdVol2\_7->display(Display\_Vol[14]);

ui->lcdVol2\_8->display(Display\_Vol[15]);

ui->openCheck1->display(Display\_Open[0]);

ui->openCheck2->display(Display\_Open[1]);

ui->lcdTemp1->display(Display\_Temp[0]);

ui->lcdTemp2->display(Display\_Temp[1]);

break;

case 4:

ui->GPIO1->setText(GPIO[0]);

ui->REFON1->setText(REFON[0]);

ui->SWTRD1->setText(SWTRD[0]);

ui->DCTO1->setText(DCTO[0]);

ui->ADCOPT1->setText(ADCOPT[0]);

ui->VUV1->setText(VUV[0]);

ui->VOV1->setText(VOV[0]);

ui->DCC1->setText(DCC[0]);

ui->GPIO2->setText(GPIO[1]);

ui->REFON2->setText(REFON[1]);

ui->SWTRD2->setText(SWTRD[1]);

ui->DCTO2->setText(DCTO[1]);

ui->ADCOPT2->setText(ADCOPT[1]);

ui->VUV2->setText(VUV[1]);

ui->VOV2->setText(VOV[1]);

ui->DCC2->setText(DCC[1]);

ui->currentStatus->setText(tr("控制寄存器信息返回成功！"));

Measure\_OK = TRUE;

ConReg\_check = FALSE;

CANrecThread.start(); //开始接收线程

break;

default:

break;

}

DisplayFlag = 0;

}

/\*\*\*\*\*\*\*\*\*打开/关闭CAN接口按键\*\*\*\*\*\*\*\*\*\*\*/

int MainWindow::on\_connectCAN\_clicked()

{

int flag = 0;

if(ui->connectCAN->text()==tr("打开接口"))

{

flag = VCI\_OpenDevice(VCI\_USBCAN1,0,0); //打开设备

if(flag != STATUS\_OK)

{

ui->currentStatus->setText(tr("打开接口失败"));

return FALSE;

}

ui->currentStatus->setText(tr("初始化接口..."));

flag = VCI\_InitCAN(VCI\_USBCAN1,0,0,&CANinitData); //初始化设备

if(flag != STATUS\_OK)

{

ui->currentStatus->setText(tr("初始化接口失败"));

return FALSE;

}

ui->Measure->setEnabled(true); //允许测量

ui->connectCAN->setText(tr("关闭接口"));

ui->currentStatus->setText(tr("接口已打开！"));

return 0;

}

if(ui->connectCAN->text()==tr("关闭接口"))

{

flag = VCI\_CloseDevice(VCI\_USBCAN1,0); //关闭CAN接口

if(flag != STATUS\_OK)

{

ui->currentStatus->setText(tr("关闭接口失败"));

return FALSE;

}

ui->Measure->setDisabled(true);

ui->connectCAN->setText(tr("打开接口"));

ui->currentStatus->setText(tr("接口已关闭！"));

return 0;

}

return 0;

}

/\*\*\*\*\*\*\*\*\*\*开始测量按键\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

int MainWindow::on\_Measure\_clicked()

{

int flag;

if(ui->Measure->text()==tr("开始测量"))

{

ui->connectCAN->setDisabled(true);

ui->Measure->setText(tr("停止测量"));

ui->currentStatus->setText(tr("正在测量..."));

flag = VCI\_StartCAN(VCI\_USBCAN1,0,0);

if(flag != STATUS\_OK)

{

ui->currentStatus->setText(tr("通信失败！"));

return FALSE;

}

flag = VCI\_ClearBuffer(VCI\_USBCAN1,0,0);

if(flag != STATUS\_OK)

{

ui->currentStatus->setText(tr("清除缓存失败！"));

return FALSE;

}

flag = VCI\_Transmit(VCI\_USBCAN1,0,0,&StartMonitor,1); //发送开始测量命令

if(flag != 1)

{

ui->currentStatus->setText(tr("发送测量命令失败！"));

return FALSE;

}

Measure\_OK = TRUE;

ConReg\_check = FALSE;

CANrecThread.start(); //开始接收线程

return 0;

}

if(ui->Measure->text()==tr("停止测量"))

{

ui->connectCAN->setEnabled(true);

ui->Measure->setText(tr("开始测量"));

Measure\_OK = FALSE; //中断线程采集循环

ConReg\_check = FALSE;

while(CANrecThread.isRunning()); //如果线程正在运行，则等待结束

flag = VCI\_Transmit(VCI\_USBCAN1,0,0,&Break,1); //发送停止测量命令

if(flag != 1)

{

ui->currentStatus->setText(tr("发送停止测量命令失败！"));

return FALSE;

}

ui->currentStatus->setText(tr("停止测量!"));

ui->lcdVol1\_1->display(0); //数据归零

ui->lcdVol1\_2->display(0);

ui->lcdVol1\_3->display(0);

ui->lcdVol1\_4->display(0);

ui->lcdVol1\_5->display(0);

ui->lcdVol1\_6->display(0);

ui->lcdVol1\_7->display(0);

ui->lcdVol1\_8->display(0);

ui->lcdVol2\_1->display(0); //数据归零

ui->lcdVol2\_2->display(0);

ui->lcdVol2\_3->display(0);

ui->lcdVol2\_4->display(0);

ui->lcdVol2\_5->display(0);

ui->lcdVol2\_6->display(0);

ui->lcdVol2\_7->display(0);

ui->lcdVol2\_8->display(0);

ui->openCheck1->display("00000000");

ui->openCheck2->display("00000000");

ui->lcdTemp1->display(0);

ui->lcdTemp2->display(0);

return 0;

}

return 0;

}

void MainWindow::on\_startMeasure\_2\_clicked()

{

ConReg\_check = FALSE;

Measure\_OK = FALSE;

while(CANrecThread.isRunning()); //如果线程正在运行，则等待结束

ui->currentStatus->setText(tr("正在返回控制寄存器信息...请等待"));

ConReg\_check = TRUE; //读寄存器部分开启

CANrecThread.start(); //开始接收线程

}

void MainWindow::on\_congdian\_clicked()

{

QMessageBox::information(NULL,"提示","未连接锂电池!");

}

void MainWindow::on\_tingzhicongdian\_clicked()

{

ui->tingzhiButton->setEnabled(false);

}

#include "workthread.h"

#include "ControlCAN.h"

#include <QtDebug>

#include "ltc6804.h"

extern VCI\_CAN\_OBJ openCheck; //开路检查帧

extern VCI\_CAN\_OBJ DisplayData; //显示命令

extern VCI\_CAN\_OBJ ReadReg;

extern VCI\_CAN\_OBJ RecData[6]; //电压和温度一共5帧

extern VCI\_CAN\_OBJ RecVol[4]; //接收电压帧

extern VCI\_CAN\_OBJ RecTemp; //接收温度帧

extern int Display\_Vol[16]; //存储待显示电压数据

extern int Display\_Temp[2]; //待显示温度数据

extern QString Display\_Open[2];

extern VCI\_ERR\_INFO CANerr;

extern int DisplayFlag;

extern bool Measure\_OK;

extern bool ConReg\_check;

extern QString GPIO[2];

extern QString REFON[2];

extern QString SWTRD[2];

extern QString DCTO[2];

extern QString ADCOPT[2];

extern QString VUV[2];

extern QString VOV[2];

extern QString DCC[2];

CAN\_rec\_thread::CAN\_rec\_thread(){}

//CAN\_sen\_thread::CAN\_sen\_thread(){}

//display\_thread::display\_thread(){}

//接收线run程函数定义

void CAN\_rec\_thread::run()

{

unsigned char i = 0,count = 0;;

unsigned int j = 0, k = 0;

DWORD flag = 0;

if(Measure\_OK)

{

while(Measure\_OK)

{

i = 0; j = 0; k = 0; flag = 0;

flag = VCI\_Transmit(VCI\_USBCAN1,0,0,&DisplayData,1); //发送显示请求命令

if(flag != 1)

{

DisplayFlag = 1; //报错

}

flag = VCI\_Receive(VCI\_USBCAN1,0,0,RecData,10,50); //接收数据

if(flag != 6)

{

DisplayFlag = 2;

flag = VCI\_ReadErrInfo(VCI\_USBCAN1,0,0,&CANerr); //报错

}

if(flag == 6) //收到正确帧数，处理数据

{

for(i = 0; i < 6; i ++) //分开电压（4帧）和温度（2帧）

{

if((RecData[i].ID & 0x10) == 0) //芯片1电压数据

{

RecVol[j] = RecData[i];

j++;

}

if((RecData[i].ID & 0x10) == 0x10) //芯片2电压数据

{

RecVol[j] = RecData[i];

j++;

}

if(RecData[i].ID == 0x03) //温度数据

{

RecTemp = RecData[i];

}

if(RecData[i].ID == 0x04)

{

openCheck = RecData[i];

}

}

//合成待显示格式数据

i = 0; j = 0; //电压部分

for(; j<4 ; j++)

{

for( i=0 ; i<8 ; i=i+2)

{

Display\_Vol[k] = (RecVol[j].Data[i]<<8) + RecVol[j].Data[i+1];

k++;

}

}

k = 0; //温度部分

for( i=0 ; i<4 ; i=i+2)

{

Display\_Temp[k] = (RecTemp.Data[i]<<8) + RecTemp.Data[i+1];

k++;

}

//开路状态部分

Display\_Open[0] = QString("%1").arg(openCheck.Data[0],8,2,QChar('0'));

Display\_Open[1] = QString("%1").arg(openCheck.Data[1],8,2,QChar('0'));

DisplayFlag = 3;

}

msleep(100);

emit display\_signal(DisplayFlag); //发射信号

}

}

if(ConReg\_check)

{

while(ConReg\_check)

{

i = 0; flag = 0;

flag = VCI\_Transmit(VCI\_USBCAN1,0,0,&ReadReg,1); //发送显示请求命令

if(flag != 1)

{

DisplayFlag = 1; //报错

}

flag = VCI\_Receive(VCI\_USBCAN1,0,0,RecData,10,100); //接收数据

if(flag != 4)

{

DisplayFlag = 2;

flag = VCI\_ReadErrInfo(VCI\_USBCAN1,0,0,&CANerr); //报错

}

if(flag == 4)

{

ConReg[0].GPIO = RecData[0].Data[0];

ConReg[0].REFON = RecData[0].Data[1];

ConReg[0].SWTRD = RecData[0].Data[2];

ConReg[0].ADCOPT = RecData[0].Data[3];

ConReg[0].DCTO = RecData[0].Data[4];

ConReg[0].VUV = ((RecData[1].Data[0]<<8)+RecData[1].Data[1])&0xfff;

ConReg[0].VOV = ((RecData[1].Data[2]<<8)+RecData[1].Data[3])&0xfff;

ConReg[0].DCC = ((RecData[1].Data[4]<<8)+RecData[1].Data[5])&0xfff;

GPIO[0] = QString("%1").arg(ConReg[0].GPIO,2,16,QChar('0'));

REFON[0] = QString("%1").arg(ConReg[0].REFON,1,16,QChar('0'));

SWTRD[0] = QString("%1").arg(ConReg[0].SWTRD,1,16,QChar('0'));

ADCOPT[0] = QString("%1").arg(ConReg[0].ADCOPT,1,16,QChar('0'));

DCTO[0] = QString("%1").arg(ConReg[0].DCTO,1,16,QChar('0'));

VUV[0] = QString("%1").arg(ConReg[0].VUV,3,16,QChar('0'));

VOV[0] = QString("%1").arg(ConReg[0].VOV,3,16,QChar('0'));

DCC[0] = QString("%1").arg(ConReg[0].DCC,3,16,QChar('0'));

ConReg[1].GPIO = RecData[2].Data[0];

ConReg[1].REFON = RecData[2].Data[1];

ConReg[1].SWTRD = RecData[2].Data[2];

ConReg[1].ADCOPT = RecData[2].Data[3];

ConReg[1].DCTO = RecData[2].Data[4];

ConReg[1].VUV = ((RecData[3].Data[0]<<8)+RecData[1].Data[1])&0xfff;

ConReg[1].VOV = ((RecData[3].Data[2]<<8)+RecData[1].Data[3])&0xfff;

ConReg[1].DCC = ((RecData[3].Data[4]<<8)+RecData[1].Data[5])&0xfff;

GPIO[1] = QString("%1").arg(ConReg[1].GPIO,2,16,QChar('0'));

REFON[1] = QString("%1").arg(ConReg[1].REFON,1,16,QChar('0'));

SWTRD[1] = QString("%1").arg(ConReg[1].SWTRD,1,16,QChar('0'));

ADCOPT[1] = QString("%1").arg(ConReg[1].ADCOPT,1,16,QChar('0'));

DCTO[1] = QString("%1").arg(ConReg[1].DCTO,1,16,QChar('0'));

VUV[1] = QString("%1").arg(ConReg[1].VUV,3,16,QChar('0'));

VOV[1] = QString("%1").arg(ConReg[1].VOV,3,16,QChar('0'));

DCC[1] = QString("%1").arg(ConReg[1].DCC,3,16,QChar('0'));

DisplayFlag = 4;

ConReg\_check = FALSE;

}

msleep(50);

}

emit display\_signal(DisplayFlag); //发射信号

}

}

//ui界面代码

<?xml version="1.0" encoding="UTF-8"?>

<ui version="4.0">

<class>MainWindow</class>

<widget class="QMainWindow" name="MainWindow">

<property name="enabled">

<bool>true</bool>

</property>

<property name="geometry">

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<y>0</y>

<width>778</width>

<height>629</height>

</rect>

</property>

<property name="windowTitle">

<string>WPT能量管理系统</string>

</property>

<widget class="QWidget" name="centralWidget">

<widget class="QTabWidget" name="tabWidget">

<property name="geometry">

<rect>

<x>10</x>

<y>10</y>

<width>761</width>

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<property name="currentIndex">

<number>0</number>

</property>

<widget class="QWidget" name="tab\_3">

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<string>主设置</string>

</attribute>

<widget class="QFrame" name="frame">

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<y>30</y>

<width>371</width>

<height>551</height>

</rect>

</property>

<property name="styleSheet">

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</property>

<property name="frameShape">

<enum>QFrame::StyledPanel</enum>

</property>

<property name="frameShadow">

<enum>QFrame::Raised</enum>

</property>

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<rect>

<x>400</x>

<y>30</y>

<width>161</width>

<height>101</height>

</rect>

</property>

<property name="title">

<string>充电选择</string>

</property>

<widget class="QPushButton" name="chongdianButton">

<property name="geometry">

<rect>

<x>20</x>

<y>20</y>

<width>75</width>

<height>23</height>

</rect>

</property>

<property name="text">

<string>充电</string>

</property>

</widget>

<widget class="QPushButton" name="tingzhiButton">

<property name="geometry">

<rect>

<x>20</x>

<y>60</y>

<width>75</width>

<height>23</height>

</rect>

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<property name="text">

<string>停止</string>

</property>

</widget>

</widget>

<widget class="QPushButton" name="kaishiButton">

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<x>400</x>

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<height>31</height>

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</property>

<property name="text">

<string>开始监测</string>

</property>

</widget>

<widget class="QTextEdit" name="textEdit">

<property name="geometry">

<rect>

<x>400</x>

<y>250</y>

<width>331</width>

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<height>31</height>

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<property name="text">

<string>监测电量大小并实时提示：</string>

</property>

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<y>170</y>

<width>31</width>

<height>31</height>

</rect>

</property>

<property name="styleSheet">

<string notr="true">background-color: rgb(255, 0, 0);</string>

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<property name="text">

<string/>

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<rect>

<x>610</x>

<y>180</y>

<width>141</width>

<height>16</height>

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</property>

<property name="text">

<string>充电出现问题，红灯闪烁</string>

</property>

</widget>

<widget class="QLabel" name="label\_50">

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<y>210</y>

<width>31</width>

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<y>220</y>

<width>141</width>

<height>16</height>

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<string>红蓝灯闪烁，表示充满电</string>

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<y>30</y>

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<height>101</height>

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<property name="title">

<string>是否在充电</string>

</property>

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<property name="geometry">

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<y>40</y>

<width>91</width>

<height>31</height>

</rect>

</property>

<property name="text">

<string>点击检测</string>

</property>

</widget>

</widget>

</widget>

<widget class="QWidget" name="tab">

<attribute name="title">

<string>锂电池监控</string>

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<y>150</y>

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<height>331</height>

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</property>

<property name="title">

<string>状态信息</string>

</property>

<widget class="QLabel" name="label\_42">

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<width>18</width>

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<y>130</y>

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<property name="text">

<string>控制寄存器状态</string>

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</widget>

<widget class="QLabel" name="label\_43">

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<string>GPIO</string>

</property>

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</item>

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<widget class="QLabel" name="label\_20">

<property name="text">

<string>REFON</string>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="label\_22">

<property name="text">

<string>SWTRD</string>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="label\_23">

<property name="text">

<string>DCTO</string>

</property>

</widget>

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<item>

<widget class="QLabel" name="label\_26">

<property name="text">

<string>ADCOPT</string>

</property>

</widget>

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<item>

<widget class="QLabel" name="label\_31">

<property name="text">

<string>VUV</string>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="label\_32">

<property name="text">

<string>VOV</string>

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<string/>

</property>

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</item>

<item>

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<property name="text">

<string/>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="SWTRD2">

<property name="text">

<string/>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="DCTO2">

<property name="text">

<string/>

</property>

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<item>

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<property name="text">

<string/>

</property>

</widget>

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<item>

<widget class="QLabel" name="VUV2">

<property name="text">

<string/>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="VOV2">

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<string/>

</property>

</widget>

</item>

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<widget class="QLabel" name="DCC2">

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</layout>

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<y>20</y>

<width>231</width>

<height>16</height>

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<string>开路故障（“1”表示相应位置电池开路）</string>

</property>

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<property name="digitCount">

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</property>

</widget>

</item>

<item>

<widget class="QLCDNumber" name="openCheck2">

<property name="digitCount">

<number>8</number>

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</widget>

</item>

</layout>

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<property name="text">

<string>GPIO</string>

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</widget>

</item>

<item>

<widget class="QLabel" name="label\_9">

<property name="text">

<string>REFON</string>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="label\_10">

<property name="text">

<string>SWTRD</string>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="label\_11">

<property name="text">

<string>DCTO</string>

</property>

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<string>ADCOPT</string>

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<string>VUV</string>

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<string>VOV</string>

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<widget class="QLabel" name="REFON1">

<property name="text">

<string/>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="SWTRD1">

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<string/>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="DCTO1">

<property name="text">

<string/>

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<property name="title">

<string>电压信息(100uV)</string>

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<property name="text">

<string>1组</string>

</property>

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</item>

<item row="1" column="1">

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<widget class="QLabel" name="label\_29">

<property name="text">

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</item>

<item>

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<property name="digitCount">

<number>5</number>

</property>

</widget>

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</item>

<item row="2" column="1">

<layout class="QHBoxLayout" name="horizontalLayout\_22">

<item>

<widget class="QLabel" name="label\_25">

<property name="text">

<string>电压2</string>

</property>

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<item>

<widget class="QLCDNumber" name="lcdVol2\_2"/>

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</layout>

</item>

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<widget class="QLabel" name="label\_2">

<property name="text">

<string>电压2</string>

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<item>

<widget class="QLCDNumber" name="lcdVol1\_2"/>

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</item>

<item row="3" column="1">

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<property name="text">

<string>电压3</string>

</property>

</widget>

</item>

<item>

<widget class="QLCDNumber" name="lcdVol2\_3"/>

</item>

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<layout class="QHBoxLayout" name="horizontalLayout\_3">

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<property name="text">

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</property>

</widget>

</item>

<item>

<widget class="QLCDNumber" name="lcdVol1\_3"/>

</item>

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</item>

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<property name="text">

<string>电压4</string>

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</widget>

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<item>

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</layout>

</item>

<item row="4" column="0">

<layout class="QHBoxLayout" name="horizontalLayout\_4">

<item>

<widget class="QLabel" name="label\_4">

<property name="text">

<string>电压4</string>

</property>

</widget>

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<item row="5" column="0">

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<widget class="QLabel" name="label\_5">

<property name="text">

<string>电压5</string>

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<item>

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</item>

</layout>

</item>

<item row="5" column="1">

<layout class="QHBoxLayout" name="horizontalLayout\_21">

<item>

<widget class="QLabel" name="label\_24">

<property name="text">

<string>电压5</string>

</property>

</widget>

</item>

<item>

<widget class="QLCDNumber" name="lcdVol2\_5"/>

</item>

</layout>

</item>

<item row="6" column="0">

<layout class="QHBoxLayout" name="horizontalLayout\_6">

<item>

<widget class="QLabel" name="label\_6">

<property name="text">

<string>电压6</string>

</property>

</widget>

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</item>

<item row="6" column="1">

<layout class="QHBoxLayout" name="horizontalLayout\_31">

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<property name="text">

<string>电压6</string>

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<widget class="QLCDNumber" name="lcdVol2\_6"/>

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<item row="7" column="0">

<layout class="QHBoxLayout" name="horizontalLayout\_14">

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<widget class="QLabel" name="label\_17">

<property name="text">

<string>电压7</string>

</property>

</widget>

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<property name="digitCount">

<number>5</number>

</property>

</widget>

</item>

</layout>

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<item row="8" column="0">

<layout class="QHBoxLayout" name="horizontalLayout\_8">

<item>

<widget class="QLabel" name="label\_16">

<property name="text">

<string>电压8</string>

</property>

</widget>

</item>

<item>

<widget class="QLCDNumber" name="lcdVol1\_8"/>

</item>

</layout>

</item>

<item row="7" column="1">

<layout class="QHBoxLayout" name="horizontalLayout\_25">

<item>

<widget class="QLabel" name="label\_28">

<property name="text">

<string>电压7</string>

</property>

</widget>

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<property name="digitCount">

<number>5</number>

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</item>

</layout>

</item>

<item row="8" column="1">

<layout class="QHBoxLayout" name="horizontalLayout\_24">

<item>

<widget class="QLabel" name="label\_27">

<property name="text">

<string>电压8</string>

</property>

</widget>

</item>

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<widget class="QLCDNumber" name="lcdVol2\_8"/>

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<rect>

<x>440</x>

<y>20</y>

<width>201</width>

<height>121</height>

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</property>

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</property>

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<property name="text">

<string>1组</string>

</property>

</widget>

</item>

<item row="0" column="1">

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<item>

<widget class="QLabel" name="label\_37">

<property name="text">

<string>温度</string>

</property>

</widget>

</item>

<item>

<widget class="QLCDNumber" name="lcdTemp1">

<property name="digitCount">

<number>5</number>

</property>

</widget>

</item>

</layout>

</item>

<item row="1" column="0">

<widget class="QLabel" name="label\_40">

<property name="text">

<string>2组</string>

</property>

</widget>

</item>

<item row="1" column="1">

<layout class="QHBoxLayout" name="horizontalLayout\_34">

<item>

<widget class="QLabel" name="label\_38">

<property name="text">

<string>温度</string>

</property>

</widget>

</item>

<item>

<widget class="QLCDNumber" name="lcdTemp2">

<property name="digitCount">

<number>5</number>

</property>

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</item>

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<widget class="QLabel" name="label\_14">

<property name="geometry">

<rect>

<x>451</x>

<y>551</y>

<width>54</width>

<height>16</height>

</rect>

</property>

<property name="text">

<string>当前状态:</string>

</property>

</widget>

<widget class="QWidget" name="layoutWidget\_2">

<property name="geometry">

<rect>

<x>70</x>

<y>500</y>

<width>561</width>

<height>25</height>

</rect>

</property>

<layout class="QHBoxLayout" name="horizontalLayout\_9">

<item>

<widget class="QPushButton" name="connectCAN">

<property name="text">

<string>打开接口</string>

</property>

</widget>

</item>

<item>

<spacer name="horizontalSpacer">

<property name="orientation">

<enum>Qt::Horizontal</enum>

</property>

<property name="sizeHint" stdset="0">

<size>

<width>40</width>

<height>20</height>

</size>

</property>

</spacer>

</item>

<item>

<widget class="QPushButton" name="Measure">

<property name="text">

<string>开始测量</string>

</property>

</widget>

</item>

<item>

<spacer name="horizontalSpacer\_2">

<property name="orientation">

<enum>Qt::Horizontal</enum>

</property>

<property name="sizeHint" stdset="0">

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<width>40</width>

<height>20</height>

</size>

</property>

</spacer>

</item>

<item>

<widget class="QPushButton" name="startMeasure\_2">

<property name="text">

<string>寄存器状态</string>

</property>

</widget>

</item>

<item>

<spacer name="horizontalSpacer\_3">

<property name="orientation">

<enum>Qt::Horizontal</enum>

</property>

<property name="sizeHint" stdset="0">

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<width>40</width>

<height>20</height>

</size>

</property>

</spacer>

</item>

<item>

<widget class="QPushButton" name="pushButton\_3">

<property name="text">

<string>退出</string>

</property>

</widget>

</item>

</layout>

</widget>

<widget class="QLabel" name="currentStatus">

<property name="geometry">

<rect>

<x>519</x>

<y>551</y>

<width>201</width>

<height>16</height>

</rect>

</property>

<property name="text">

<string/>

</property>

</widget>

<widget class="QWidget" name="layoutWidget\_5">

<property name="geometry">

<rect>

<x>40</x>

<y>550</y>

<width>311</width>

<height>16</height>

</rect>

</property>

<layout class="QHBoxLayout" name="horizontalLayout\_11">

<item>

<widget class="QLabel" name="label\_8">

<property name="text">

<string>当前时间:</string>

</property>

</widget>

</item>

<item>

<widget class="QLabel" name="CurrentTime">

<property name="text">

<string/>

</property>

</widget>

</item>

</layout>

</widget>

</widget>

<widget class="QWidget" name="tab\_2">

<attribute name="title">

<string>信息</string>

</attribute>

<widget class="QTextBrowser" name="textBrowser">

<property name="geometry">

<rect>

<x>190</x>

<y>80</y>

<width>331</width>

<height>241</height>

</rect>

</property>

<property name="html">

<string>&lt;!DOCTYPE HTML PUBLIC &quot;-//W3C//DTD HTML 4.0//EN&quot; &quot;http://www.w3.org/TR/REC-html40/strict.dtd&quot;&gt;

&lt;html&gt;&lt;head&gt;&lt;meta name=&quot;qrichtext&quot; content=&quot;1&quot; /&gt;&lt;style type=&quot;text/css&quot;&gt;

p, li { white-space: pre-wrap; }

&lt;/style&gt;&lt;/head&gt;&lt;body style=&quot; font-family:'SimSun'; font-size:9pt; font-weight:400; font-style:normal;&quot;&gt;

&lt;p align=&quot;center&quot; style=&quot;-qt-paragraph-type:empty; margin-top:0px; margin-bottom:0px; margin-left:0px; margin-right:0px; -qt-block-indent:0; text-indent:0px; font-family:'SimSun';&quot;&gt;&lt;br /&gt;&lt;/p&gt;

&lt;p align=&quot;center&quot; style=&quot;-qt-paragraph-type:empty; margin-top:0px; margin-bottom:0px; margin-left:0px; margin-right:0px; -qt-block-indent:0; text-indent:0px; font-family:'SimSun'; font-size:20pt; font-weight:600;&quot;&gt;&lt;br /&gt;&lt;/p&gt;

&lt;p align=&quot;center&quot; style=&quot; margin-top:0px; margin-bottom:0px; margin-left:0px; margin-right:0px; -qt-block-indent:0; text-indent:0px;&quot;&gt;&lt;span style=&quot; font-family:'SimSun'; font-size:16pt;&quot;&gt;WPT能量管理系统&lt;/span&gt;&lt;/p&gt;

&lt;p align=&quot;center&quot; style=&quot;-qt-paragraph-type:empty; margin-top:0px; margin-bottom:0px; margin-left:0px; margin-right:0px; -qt-block-indent:0; text-indent:0px; font-family:'SimSun';&quot;&gt;&lt;br /&gt;&lt;/p&gt;

&lt;p align=&quot;center&quot; style=&quot;-qt-paragraph-type:empty; margin-top:0px; margin-bottom:0px; margin-left:0px; margin-right:0px; -qt-block-indent:0; text-indent:0px; font-family:'SimSun'; font-size:16pt;&quot;&gt;&lt;br /&gt;&lt;/p&gt;

&lt;p align=&quot;center&quot; style=&quot;-qt-paragraph-type:empty; margin-top:0px; margin-bottom:0px; margin-left:0px; margin-right:0px; -qt-block-indent:0; text-indent:0px; font-family:'SimSun'; font-size:16pt;&quot;&gt;&lt;br /&gt;&lt;/p&gt;

&lt;p align=&quot;center&quot; style=&quot; margin-top:0px; margin-bottom:0px; margin-left:0px; margin-right:0px; -qt-block-indent:0; text-indent:0px;&quot;&gt;&lt;span style=&quot; font-family:'SimSun'; font-size:16pt;&quot;&gt;设计者：WPT&lt;/span&gt;&lt;/p&gt;&lt;/body&gt;&lt;/html&gt;</string>

</property>

</widget>

</widget>

</widget>

<widget class="QSplitter" name="splitter">

<property name="geometry">

<rect>

<x>0</x>

<y>0</y>

<width>0</width>

<height>0</height>

</rect>

</property>

<property name="orientation">

<enum>Qt::Horizontal</enum>

</property>

</widget>

<widget class="QWidget" name="layoutWidget">

<property name="geometry">

<rect>

<x>0</x>

<y>0</y>

<width>2</width>

<height>2</height>

</rect>

</property>

<layout class="QVBoxLayout" name="verticalLayout"/>

</widget>

<widget class="QWidget" name="layoutWidget">

<property name="geometry">

<rect>

<x>0</x>

<y>0</y>

<width>2</width>

<height>2</height>

</rect>

</property>

<layout class="QVBoxLayout" name="verticalLayout\_2"/>

</widget>

<zorder>layoutWidget</zorder>

<zorder>layoutWidget</zorder>

<zorder>splitter</zorder>

<zorder>tabWidget</zorder>

</widget>

</widget>

<layoutdefault spacing="6" margin="11"/>

<resources/>

<connections/>

</ui>