/\*===================================================================

\*

\* Declararion of constants, etc

\*

\*===================================================================

\*/

long WM\_ADVISORY = WM\_USER + 0x0101;

const static CString PATH\_CERNOX = \_T("CernoxCalibration.dat");

const static CString PATH\_LOGFILE = \_T("DilaLog.txt");

/\* Variables for the communication with the PPMS

via the function GpibSend \*/

int device=15; // device number

char command[4096]; // command buffer

long bytesToSend; // size of command

char response[4096]; // response buffer

long responseSize=4096; // sizeof response buffer

long bytesRead; // pointer to actual bytes read

int pPpmsError; // command error

char errorStr[256]; // error string

long errorSize=256; // sizeof error string

int swapBytes = 0; // swap bytes (FALSE)

DWORD mutexTimeout=10000; // millisecond timeout for communication mutex

/\* Variables for the communication with the capacitance bridge AH2550

via the functions ibdev, ibwrt, ibrd, ... \*/

int GPIBdev; // device descriptor

static const int BDINDEX = 0 ; // Board Index

static const int PRIMARY\_ADDR\_OF\_DMM = 28 ; // Primary address of device

static const int NO\_SECONDARY\_ADDR = 0 ; // Secondary address of device

static const int TIMEOUT = 13 ; // Timeout value = 13 seconds

static const int EOTMODE = 1 ; // Enable the END message

static const int EOSMODE = 0 ; // Disable the EOS mode

static const int ARRAYSIZEAH2550 = 100; // Size of read buffer

char ReadBuffer[ARRAYSIZEAH2550 + 1]; // ibrd read data buffer

/\* GPIB Iberr error codes \*/

char ErrorMnemonic[29][5] = { "EDVR", "ECIC", "ENOL", "EADR", "EARG",

"ESAC", "EABO", "ENEB", "EDMA", "",

"EOIP", "ECAP", "EFSO", "", "EBUS",

"ESTB", "ESRQ", "", "", "",

"ETAB", "ELCK", "EARM", "EHDL", "",

"", "EWIP", "ERST", "EPWR" };

/\* Constants for the GPIB error handler \*/

const int ERRID\_WRITE = 1;

const int ERRID\_READ = 2;

const int ERRID\_PPMSRESPONSE = 3;

const int ERRID\_OUTPUTFILE = 4;

const int ERRID\_AH2550RESPONSE = 5;

const int ERRID\_IBDEV = 666;

const int ERRID\_IBCLR = 667;

const int ERRID\_IBONL = 668;

/\* for the output save file \*/

const int OUTPUT\_APPEND = 100;

const int OUTPUT\_OVERWRITE = 200;