// Ppmscomm.h

// Windows GPIB interface DLL

// Quantum Design 1996-2001

#ifdef \_\_cplusplus

extern "C" {

#endif /\* \_\_cplusplus \*/

//#include "decl-32.h"

#include "ni4882.h"

/////////////////////////////////////

// Global errors

/////////////////////////////////////

typedef enum{

NEW\_EDEV = (ETAB + 1), // NI GPIB errors = 0-ETAB

CMD\_ERR, // start ours after theirs

MUTEX\_TIMEOUT, // could not acquire mutex

MUTEX\_ABANDONED, // mutex was abandoned

MUTEX\_RELEASED, // mutex was not released

MUTEX\_NOEXIST, // mutex HANDLE = NULL;

OP\_INCOMPLETE, // operation did not complete

SEND\_ERROR, // command could not be sent

DEVICE\_CLR\_ERROR, // error caused a device clear

LAST\_SHARED\_ERROR // place holder, insert errors above.

}SHARED\_ERRORS;

#define MAX\_RESPONSE 4\*1024 // maximum Model 6000 read buffer size

/////////////////////////////////////////////////////////////////////////////

// Exported functions

/////////////////////////////////////////////////////////////////////////////

extern "C" \_declspec(dllexport) int GpibSend

(

int device, // device number

LPCSTR command, // command buffer

long bytesToSend, // size of command

LPSTR response, // response buffer

long responseSize, // sizeof response buffer

long \*bytesRead, // pointer to actual bytes read

int \*pPpmsError, // command error

LPSTR errorStr, // error string

long errorSize, // sizeof error string

int swap, // swap bytes (FALSE)

DWORD mutexTimeout // millisecond timeout for communication mutex

);

extern "C" \_declspec(dllexport) HANDLE RegisterForAdvisories

(

HWND hwnd, // handle of window to receive advisory notification

UINT message, // id of return message

LPARAM lParam // application specific data

);

extern "C" \_declspec(dllexport) void UnregisterFromAdvisories

(

HANDLE hTerminateThread // The thread ID returned by RegisterForAdvisories

);

extern "C" \_declspec(dllexport) int GetCommunicationMutex

(

DWORD timeout

);

extern "C" \_declspec(dllexport) BOOL ReleaseCommunicationMutex( void );

/////////////////////////////////////////////////////////////////////////////

// Visual Basic Exported functions

//extern "C" \_declspec(dllexport)

// long WINAPI PpmsSendRead( BSTR bsWriteBuff,

// BSTR bsReadBuff,

// BSTR bsErrBuff,

// double dTimeout );

//extern "C" \_declspec(dllexport)

// long WINAPI RegisterAdvisory( long hWindow, long lMsg, long lAppMsg );

//extern "C" \_declspec(dllexport)

// long WINAPI UnregisterAdvisory( long hAdvisory );

//extern "C" \_declspec(dllexport)

// long WINAPI GetExclusiveGpib( double dTimeout );

//extern "C" \_declspec(dllexport)

// long WINAPI ReleaseExclusiveGpib( void );

#ifdef \_\_cplusplus

}

#endif