

```

1:  /*
2:  libxbee - a C library to aid the use of Digi's Series 1 XBee modules
3:  running in API mode (AP=2).
4:
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6:
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18: along with this program. If not, see <http://www.gnu.org/licenses/>.
19: */
20:
21: /* this file contains code that is used by Win32 ONLY */
22: #ifndef _WIN32
23: #error "This file should only be used on a Win32 system"
24: #endif
25:
26: /* ##### */
27: /* ### Win32 Code ##### */
28: /* ##### */
29:
30: #pragma comment(lib, "Advapi32.lib")
31: #pragma comment(lib, "User32.lib")
32:
33: #define dllid "attie-co-uk.libxbee"
34: #define dlldesc "libxbee - XBee API Library"
35: /* libxbee's GUID is {7A6E25AA-ECB5-4370-87B5-A1D31840FE23} */
36: #define dllGUID "{7A6E25AA-ECB5-4370-87B5-A1D31840FE23}"
37:
38: HMODULE glob_hModule = NULL;
39:
40: /* this uses miliseconds not microseconds... */
41: #define usleep(a) Sleep((a)/1000)
42:
43: #define xbee_thread_create(a,b,c) (((a) = CreateThread(NULL,0,(void *) (b),(void *) (c),0,NULL)) == NULL)
44: #define xbee_thread_cancel(a,b) TerminateThread((a),(b))
45: #define xbee_thread_join(a) WaitForSingleObject((a),INFINITE)
46:
47: #define xbee_mutex_init(a) (!InitializeCriticalSectionAndSpinCount(&(a),0))
48: #define xbee_mutex_destroy(a) DeleteCriticalSection(&(a))
49: #define xbee_mutex_lock(a) EnterCriticalSection(&(a))
50: #define xbee_mutex_trylock(a) (!TryEnterCriticalSection(&(a)))
51: #define xbee_mutex_unlock(a) LeaveCriticalSection(&(a))
52:
53: #define xbee_sem_init(a) (((a) = CreateEvent(NULL,FALSE,FALSE,NULL)) == NULL)
54: #define xbee_sem_destroy(a) CloseHandle((a))
55: #define xbee_sem_wait(a) WaitForSingleObject((a),1000)
56: #define xbee_sem_post(a) SetEvent((a))
57:
58: #define xbee_cond_init(a) InitializeConditionVariable(&(a))
59: #define xbee_cond_destroy(a)
60: #define xbee_cond_wait(a,b) SleepConditionVariableCS(&(a),&(b),INFINITE)
61: #define xbee_cond_signal(a) WakeConditionVariable(&(a))
62: #define xbee_cond_broadcast(a) WakeAllConditionVariable(&(a))
63:
64: #define xbee_close(a) CloseHandle((a))
65:
66: typedef struct win32_callback_info win32_callback_info;
67: struct win32_callback_info {
68:     xbee_con *con;
69:     HWND hWnd;
70:     UINT uMsg;
71:     win32_callback_info *next;
72: };
73:
74: win32_callback_info *callbackMap = NULL;
75: xbee_mutex_t callbackmutex;
76: char callbackmutexInitialized = 0;

```