

```

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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19: */
20:
21: #define TRUE 1
22: #define FALSE 0
23:
24: #define ISREADY \
25:     if (!xbee_ready) { \
26:         fprintf(stderr, "XBee: Run xbee_setup() first!...\n"); \
27:         exit(1); \
28:     }
29:
30: #define M8(x) (x & 0xFF)
31: #define FDO(x,y,z) \
32:     if (((x) = fdopen((y),(z))) == NULL) { \
33:         perror("fopen()"); \
34:         return(-1); \
35:     }
36: #define FO(x,y,z) \
37:     if (((x) = open((y),(z))) == -1) { \
38:         perror("open()"); \
39:         return(-1); \
40:     }
41:
42: struct t_data {
43:     unsigned char data[128];
44:     unsigned int length;
45: };
46: typedef struct t_data t_data;
47:
48: struct t_info {
49:     int i;
50: };
51: typedef struct t_info t_info;
52:
53: struct {
54:     xbee_con *conlist;
55:     pthread_mutex_t conmutex;
56:
57:     xbee_pkt *pktlist;
58:     pthread_mutex_t pktmutex;
59:
60:     pthread_mutex_t sendmutex;
61:
62:     pthread_t listent;
63:
64:     xbee_con *con_txStatus;
65:
66:     int ttyfd;
67:     FILE *tty;
68:
69:     char *path;
70: } xbee;
71:
72: void *Xmalloc(size_t size);
73: void *Xrealloc(void *ptr, size_t size);
74: #define Xfree(x) Xfree2((void **)&x)
75: void Xfree2(void **ptr);
76:
77: void xbee_listen(t_info *info);
78: unsigned char xbee_getByte(void);
79: unsigned char xbee_getRawByte(void);
80:
81: t_data *xbee_make_pkt(unsigned char *data, int len);
82: void xbee_send_pkt(t_data *pkt);

```