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```
2:
        libxbee - a C library to aid the use of Digi's Series 1 XBee modules
 3:
                   running in API mode (AP=2).
 4:
 5:
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 6:
 7:
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        along with this program. If not, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>.
19: */
20:
21: #define TRUE 1
22: #define FALSE 0
23:
24: #define ISREADY
      if (!xbee_ready) {
25:
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)
     if (((x) = fdopen((y),(z))) == NULL) 
32:
33:
        perror("fopen()");
34:
        return(-1);
35:
36: #define FO(x,y,z)
      if (((x) = open((y),(z))) == -1) {
37:
        perror("open()");
38:
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:
      xbee_pkt *pktlist;
57:
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;
      FILE *tty;
67:
68:
69:
      int logfd;
      FILE *log;
70:
71:
      char *path;
72:
73: } xbee;
74:
75: static void *Xmalloc(size_t size);
76: static void *Xrealloc(void *ptr, size_t size);
77: #define Xfree(x) Xfree2((void **)&x)
78: static void Xfree2(void **ptr);
79:
80: static int xbee_parse_io(xbee_pkt *p, unsigned char *d, int offset, int i);
81: static void xbee_listen_wrapper(t_info *info);
82: static int xbee_listen(t_info *info);
83: static unsigned char xbee_getByte(void);
84: static unsigned char xbee_getRawByte(void);
85: static int xbee_matchpktcon(xbee_pkt *pkt, xbee_con *con);
```

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86: 87: static t_data *xbee_make_pkt(unsigned char *data, int len); 88: static void xbee_send_pkt(t_data *pkt);