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1: #include "globals.h"
2:
3: int main(int argc, char *argv[]) {
4:     xbee_con *con, *con2, *con3;
5:     xbee_pkt *pkt;
6:     unsigned char addr[8];
7:     unsigned char addr16[2];
8:     unsigned char data[64];
9:     int i;
10:
11:     if (argc < 1) exit (0);
12:     xbee_setup("/dev/ttyUSB1");
13:
14:     addr[0] = 0x00;
15:     addr[1] = 0x13;
16:     addr[2] = 0xA2;
17:     addr[3] = 0x00;
18:
19:     addr[4] = 0x40;
20:     addr[5] = 0x3A;
21:     addr[6] = 0xF2;
22:     addr[7] = 0x47;
23:
24:     addr16[0] = 0x00;
25:     addr16[1] = 0x02;
26:
27:     /*if ((con = xbee_newcon(NULL,'X',xbee_localAT)) == (void *)-1) {
28:         printf("error creating connection...\n");
29:         exit(1);
30:     }
31:
32:     while(1){sleep(10);}
33:
34:     xbee_senddata(con,"CH%c",0x0C);
35:     sleep(1);
36:     xbee_senddata(con,"ID%c%c",0x33, 0x32);
37:     sleep(1);
38:     xbee_senddata(con,"DH%c%c%c%c",0x00,0x00,0x00,0x00);
39:     sleep(1);
40:     xbee_senddata(con,"DL%c%c%c%c",0x00,0x00,0x00,0x00);
41:     sleep(1);
42:     xbee_senddata(con,"MY%c%c",0x00,0x00);
43:     sleep(1);
44:     // SH - read only
45:     // SL - read only
46:     xbee_senddata(con,"RR%c",0x00);
47:     sleep(1);
48:     xbee_senddata(con,"RN%c",0x00);
49:     sleep(1);
50:     xbee_senddata(con,"MM%c",0x00);
51:     sleep(1);
52:     xbee_senddata(con,"NT%c",0x19);
53:     sleep(1);
54:     xbee_senddata(con,"NO%c",0x00);
55:     sleep(1);
56:     xbee_senddata(con,"CE%c",0x00);
57:     sleep(1);
58:     xbee_senddata(con,"SC%c%c",0x1F,0xFE);
59:     sleep(1);
60:     xbee_senddata(con,"SD%c",0x04);
61:     sleep(1);
62:     xbee_senddata(con,"A1%c",0x00);
63:     sleep(1);
64:     xbee_senddata(con,"A2%c",0x00);
65:     sleep(1);
66:     // AI - read only
67:     xbee_senddata(con,"EE%c",0x00);
68:     sleep(1);
69:     //xbee_senddata(con,"KY%c",0x00);
70:     //sleep(1);
71:     xbee_senddata(con,"NIS", "TIGGER");
72:     sleep(1);
73:     xbee_senddata(con,"PL%c",0x04);
74:     sleep(1);
75:     xbee_senddata(con,"CA%c",0x2C);
76:     sleep(1);
77:     xbee_senddata(con,"SM%c",0x00);
78:     sleep(1);
79:     xbee_senddata(con,"ST%c%c",0x13,0x88);
80:     sleep(1);
81:     xbee_senddata(con,"SP%c%c",0x00,0x00);
82:     sleep(1);
83:     xbee_senddata(con,"DP%c%c",0x03,0xE8);
84:     sleep(1);
85:     xbee_senddata(con,"SO%c",0x00);
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86:  sleep(1);
87:  xbee_senddata(con,"BD%c",0x06);
88:  sleep(1);
89:  xbee_senddata(con,"RO%c",0x03);
90:  sleep(1);
91:  xbee_senddata(con,"AP%c",0x02);
92:  sleep(1);
93:  xbee_senddata(con,"PR%c",0xFF);
94:  sleep(1);
95:  xbee_senddata(con,"D8%c",0x00);
96:  sleep(1);
97:  xbee_senddata(con,"D7%c",0x01);
98:  sleep(1);
99:  xbee_senddata(con,"D6%c",0x00);
100: sleep(1);
101: xbee_senddata(con,"D5%c",0x01);
102: sleep(1);
103: xbee_senddata(con,"D4%c",0x00);
104: sleep(1);
105: xbee_senddata(con,"D3%c",0x00);
106: sleep(1);
107: xbee_senddata(con,"D2%c",0x00);
108: sleep(1);
109: xbee_senddata(con,"D1%c",0x00);
110: sleep(1);
111: xbee_senddata(con,"D0%c",0x00);
112: sleep(1);
113: xbee_senddata(con,"IU%c",0x00);
114: sleep(1);
115: xbee_senddata(con,"IT%c",0x01);
116: sleep(1);
117: xbee_senddata(con,"IC%c",0x00);
118: sleep(1);
119: xbee_senddata(con,"IR%c%c",0x00,0x00);
120: sleep(1);
121: xbee_senddata(con,"IA%c%c%c%c%c%c%c%c",0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF);
122: sleep(1);
123: xbee_senddata(con,"T0%c",0xFF);
124: sleep(1);
125: xbee_senddata(con,"T1%c",0xFF);
126: sleep(1);
127: xbee_senddata(con,"T2%c",0xFF);
128: sleep(1);
129: xbee_senddata(con,"T3%c",0xFF);
130: sleep(1);
131: xbee_senddata(con,"T4%c",0xFF);
132: sleep(1);
133: xbee_senddata(con,"T5%c",0xFF);
134: sleep(1);
135: xbee_senddata(con,"T6%c",0xFF);
136: sleep(1);
137: xbee_senddata(con,"T7%c",0xFF);
138: sleep(1);
139: xbee_senddata(con,"P0%c",0x01);
140: sleep(1);
141: xbee_senddata(con,"P1%c",0x00);
142: sleep(1);
143: xbee_senddata(con,"PT%c",0xFF);
144: sleep(1);
145: xbee_senddata(con,"RP%c",0x28);
146: sleep(1);
147: // VR - read only
148: // HV - read only
149: // DB - read only
150: // EC - read only
151: // EA - read only
152: // DD - read only
153: xbee_senddata(con,"CT%c",0x64);
154: sleep(1);
155: xbee_senddata(con,"GT%c%c",0x03,0xE8);
156: sleep(1);
157: xbee_senddata(con,"CC%c",0x2B);
158: sleep(1);
159:
160: sleep(10);
161: */
162:
163: addr[0] = 0x00;
164: addr[1] = 0x13;
165: addr[2] = 0xA2;
166: addr[3] = 0x00;
167:
168: addr[4] = 0x40;
169: addr[5] = 0x08;
170: addr[6] = 0x18;
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171:     addr[7] = 0x26;
172:
173:     if ((con = xbee_newcon(addr, 'I', xbee_64bitIO)) == (void *)-1) {
174:         printf("error creating connection...\n");
175:         exit(1);
176:     }
177:     if ((con2 = xbee_newcon(addr, 'I', xbee_64bitData)) == (void *)-1) {
178:         printf("error creating connection...\n");
179:         exit(1);
180:     }
181:     while (1) {
182:         while ((pkt = xbee_getpacket(con)) != NULL) {
183:             if (pkt->type == xbee_64bitIO) {
184:                 printf("----- got one!... CON2 ----- \n");
185:                 if (pkt->Iomask & 0x0001) printf("Digital 0: %c\n", ((pkt->IOdata & 0x0001)?'1':'0'));
186:                 if (pkt->Iomask & 0x0002) printf("Digital 1: %c\n", ((pkt->IOdata & 0x0002)?'1':'0'));
187:                 if (pkt->Iomask & 0x0004) printf("Digital 2: %c\n", ((pkt->IOdata & 0x0004)?'1':'0'));
188:                 if (pkt->Iomask & 0x0008) printf("Digital 3: %c\n", ((pkt->IOdata & 0x0008)?'1':'0'));
189:                 if (pkt->Iomask & 0x0010) printf("Digital 4: %c\n", ((pkt->IOdata & 0x0010)?'1':'0'));
190:                 if (pkt->Iomask & 0x0020) printf("Digital 5: %c\n", ((pkt->IOdata & 0x0020)?'1':'0'));
191:                 if (pkt->Iomask & 0x0040) printf("Digital 6: %c\n", ((pkt->IOdata & 0x0040)?'1':'0'));
192:                 if (pkt->Iomask & 0x0080) printf("Digital 7: %c\n", ((pkt->IOdata & 0x0080)?'1':'0'));
193:                 if (pkt->Iomask & 0x0100) printf("Digital 8: %c\n", ((pkt->IOdata & 0x0100)?'1':'0'));
194:                 if (pkt->Iomask & 0x0200) printf("Analog 0: %.2fv\n", (3.3/1023)*pkt->IOanalog[0]);
195:                 if (pkt->Iomask & 0x0400) printf("Analog 1: %.2fv\n", (3.3/1023)*pkt->IOanalog[1]);
196:                 if (pkt->Iomask & 0x0800) printf("Analog 2: %.2fv\n", (3.3/1023)*pkt->IOanalog[2]);
197:                 if (pkt->Iomask & 0x1000) printf("Analog 3: %.2fv\n", (3.3/1023)*pkt->IOanalog[3]);
198:                 if (pkt->Iomask & 0x2000) printf("Analog 4: %.2fv\n", (3.3/1023)*pkt->IOanalog[4]);
199:                 if (pkt->Iomask & 0x4000) printf("Analog 5: %.2fv\n", (3.3/1023)*pkt->IOanalog[5]);
200:                 xbee_senddata(con2, "thank you %s %d\r", "so much", time(NULL));
201:             }
202:             free(pkt);
203:         }
204:         usleep(1000);
205:     }
206:
207:     return 0;
208: }
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