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1: ''RadioManager.spin
2: '' This is the top object for the Propeller Radio Controller interface.
3: '' It is meant to run over a USB port, getting its instructions from the Apple Mac Pro
4: ''
5:
6: CON
7:   _clkmode = xtall + pll16x
8:   _xinfreq = 5_000_000
9:
10: VAR
11: BYTE myStr
12: byte LF
13: byte RF
14: byte MICR
15: byte KEYR
16: byte STRT
17: byte stay1
18:
19: OBJ
20:   Debu : "LED_DEMO_Extended_FDSerial"
21:
22:
23: PUB LedTEST
24:   DIRA[00..29]~~
25:   OUTA[00..29] := 0
26:
27:   Debu.start(31, 30, 0, 19200)
28:   waitcnt(clkfreq*2 + cnt)
29:
30:   Debu.rxflush
31:
32: repeat
33:   Debu.rxflush
34:   Debu.str(string("Start Data Acquisition",10,13))
35:   repeat until STRT == 49
36:     Debu.str(string("Enter STRT",10,13))
37:     STRT := Debu.rx
38:     OUTA[23] := 1
39:     Debu.tx(STRT)
40:     Debu.str(string(" equals STRT",10,13,10,13))
41:     if STRT == 49
42:       OUTA[23] := 1
43:     else
44:       Debu.str(string("Wrong initialization constant",10,13,10,13))
45:
46:   STRT := 0
47:   Debu.str(string("Enter LF",10,13))
48:   OUTA[00..06] := 0
49:   repeat
50:     LF := Debu.rx
51:   while LF <49 or LF >55
52:   if LF == 49
53:     OUTA[00] := 1
54:     OUTA[23] := 1
55:   elseif LF ==50
56:     OUTA[01] := 1
57:   elseif LF ==51
58:     OUTA[02] := 1
59:   elseif LF ==52
60:     OUTA[03] := 1
61:   elseif LF ==53
62:     OUTA[04] := 1
63:   elseif LF ==54
64:     OUTA[05] := 1
65:   elseif LF ==55
66:     OUTA[06] := 1
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67:         Debu.tx(LF)
68:         Debu.str(string("  equals LF ",10,13,10,13))
69:     elseif LF == 255
70:         Debu.str(string(" No data received for LF ",10,13,10,13))
71:     Debu.tx(LF)
72:     Debu.str(string("  equals LF ",10,13,10,13))
73:     OUTA[23] := 0
74:
75:     Debu.str(string("Enter RF",10,13))
76:     RF := Debu.rxDecTime(2000)
77:     repeat
78:         RF := Debu.rx
79:     while RF < 49 or RF > 55
80:     OUTA[07..13] := 0
81:     if RF == 49
82:         OUTA[07] := 1
83:         OUTA[23] := 1
84:     elseif RF ==50
85:         OUTA[08] := 1
86:     elseif RF ==51
87:         OUTA[09] := 1
88:     elseif RF ==52
89:         OUTA[10] := 1
90:     elseif RF ==53
91:         OUTA[11] := 1
92:     elseif RF ==54
93:         OUTA[12] := 1
94:     elseif RF ==55
95:         OUTA[13] := 1
96:         Debu.dec(RF)
97:         Debu.str(string("  equals RF ",10,13,10,13))
98:     elseif RF == 255
99:         Debu.str(string(" No data received for RF ",10,13,10,13))
100:
101:     Debu.tx(RF)
102:     Debu.str(string("  equals RF ",10,13,10,13))
103:     OUTA[23] := 0
104:
105:     Debu.str(string("Enter MICR",10,13))
106:     MICR := Debu.rxDecTime(2000)
107:     repeat
108:         MICR := Debu.rx
109:     while MICR < 49 or MICR > 55
110:     OUTA[14..20] := 0
111:     if MICR == 49
112:         OUTA[14] := 1
113:     elseif MICR ==50
114:         OUTA[15] := 1
115:     elseif MICR ==51
116:         OUTA[16] := 1
117:     elseif MICR ==52
118:         OUTA[17] := 1
119:     elseif MICR ==53
120:         OUTA[18] := 1
121:     elseif MICR ==54
122:         OUTA[19] := 1
123:     elseif MICR ==55
124:         OUTA[20] := 1
125:     elseif MICR == 255
126:         Debu.str(string(" No data received for MICR ",10,13,10,13))
127:
128:     Debu.tx(MICR)
129:     Debu.str(string("  equals MICR ",10,13,10,13))
130:     OUTA[23] := 0
131:
132:     Debu.str(string("Enter KEYR",10,13))
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133: '    KEYR := Debu.rxDecTime(2000)
134:     repeat
135:         KEYR := Debu.rx
136:     while KEYR < 49 or KEYR > 55
137:     OUTA[21..27] := 0
138:     if KEYR == 49
139:         OUTA[21] := 1
140: '         OUTA[23] := 1
141:     elseif KEYR ==50
142:         OUTA[22] := 1
143:     elseif KEYR ==51
144:         OUTA[23] := 1
145:     elseif KEYR ==52
146:         OUTA[24] := 1
147:     elseif KEYR ==53
148:         OUTA[25] := 1
149:     elseif KEYR ==54
150:         OUTA[26] := 1
151:     elseif KEYR ==55
152:         OUTA[27] := 1
153:         Debu.dec(KEYR)
154:         Debu.str(string("    equals KEYR ",10,13,10,13))
155:     elseif KEYR == 255
156:         Debu.str(string(" No data received for KEYR ",10,13,10,13))
157:
158:     Debu.tx(KEYR)
159:     Debu.str(string("    equals KEYR ",10,13,10,13))
160:     Debu.str(string("End Data Acquisition",10,13,10,13))
161:     Debu.rxflush
162: '     OUTA[23] := 0
163:
164:
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