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1: 'AudioController.spin
2: ' This is the top object for the Propeller Audio 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 == 48
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 == 48
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 <48 or LF >56
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:     elseif LF ==56
68:         OUTA[00..06] := 0
69:         Debu.tx(LF)
70:         Debu.str(string(" equals LF ",10,13,10,13))
71:     elseif LF == 255
72:         Debu.str(string(" No data received for LF ",10,13,10,13))
73:     Debu.tx(LF)
74:     Debu.str(string(" equals LF ",10,13,10,13))
75:     OUTA[23] := 0
76:
77:     Debu.str(string("Enter RF",10,13))
78:     RF := Debu.rxDecTime(2000)
79:     repeat
80:         RF := Debu.rx
81:     while RF < 48 or RF > 56
82:     OUTA[07..13] := 0
83:     if RF == 49
84:         OUTA[07] := 1
85:         OUTA[23] := 1
86:     elseif RF ==50
87:         OUTA[08] := 1
88:     elseif RF ==51
89:         OUTA[09] := 1
90:     elseif RF ==52
91:         OUTA[10] := 1
92:     elseif RF ==53
93:         OUTA[11] := 1
94:     elseif RF ==54
95:         OUTA[12] := 1
96:     elseif RF ==55
97:         OUTA[13] := 1
98:     elseif LF ==56
99:         OUTA[08..13] := 0
100:         Debu.dec(RF)
101:         Debu.str(string(" equals RF ",10,13,10,13))
102:     elseif RF == 255
103:         Debu.str(string(" No data received for RF ",10,13,10,13))
104:
105:     Debu.tx(RF)
106:     Debu.str(string(" equals RF ",10,13,10,13))
107:     OUTA[23] := 0
108:
109:     Debu.str(string("Enter MICR",10,13))
110:     MICR := Debu.rxDecTime(2000)
111:     repeat
112:         MICR := Debu.rx
113:     while MICR < 48 or MICR > 56
114:     OUTA[14..20] := 0
115:     if MICR == 49
116:         OUTA[14] := 1
117:     elseif MICR ==50
118:         OUTA[15] := 1
119:     elseif MICR ==51
120:         OUTA[16] := 1
121:     elseif MICR ==52
122:         OUTA[17] := 1
123:     elseif MICR ==53
124:         OUTA[18] := 1
125:     elseif MICR ==54
126:         OUTA[19] := 1
127:     elseif MICR ==55
128:         OUTA[20] := 1
129:     elseif LF ==56
130:         OUTA[14..20] := 0
131:     elseif MICR == 255
132:         Debu.str(string(" No data received for MICR ",10,13,10,13))
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133:
134:     Debu.tx(MICR)
135:     Debu.str(string(" equals MICR ",10,13,10,13))
136:     OUTA[23] := 0
137:
138:     Debu.str(string("End Data Acquisition",10,13,10,13))
139:     Debu.rxf flush
140:     OUTA[23] := 0
141:
142:
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