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attachInterrupt(0,clock,RISING); //pin 2 = clock interrupt
pinMode(3, INPUT_PULLUP);
attachInterrupt(1,PS,RISING); //pin 3 = PS interrupt
pinMode(dataIn,INPUT_PULLUP); //pin 12 = data in from next Arduino S88 in chain
pinMode(dataOut, OUTPUT); //pin 13 = data out to ECoS or to previous Arduino in S88 chain
digitalWrite(dataOut, LOW); //LED off
pinMode(A0, INPUT_PULLUP); //sensor 01
pinMode(A1, INPUT_PULLUP); //sensor 02
pinMode(A2, INPUT_PULLUP); //sensor 03
pinMode(A3, INPUT_PULLUP); //sensor 04
pinMode(A4, INPUT_PULLUP); //sensor 05
pinMode(A5, INPUT_PULLUP); //sensor 06
pinMode(0, INPUT_PULLUP); //sensor 07
pinMode(1, INPUT_PULLUP); //sensor 08
pinMode(4, INPUT_PULLUP); //sensor 09
pinMode(5, INPUT_PULLUP); //sensor 10
pinMode(6, INPUT_PULLUP); //sensor 11
pinMode(7, INPUT_PULLUP); //sensor 12
pinMode(8, INPUT_PULLUP); //sensor 13
pinMode(9, INPUT_PULLUP); //sensor 14
pinMode(10, INPUT_PULLUP); //sensor 15
pinMode(11, INPUT_PULLUP); //sensor 16
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