

Testing Digital Potentiometer_Errors

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// I2C Digital Potentiometer
// by Nicholas Zambetti <http://www.zambetti.com>
// and Shawn Bonkowski <http://people.interaction-ivrea.it/s.bonkowski/>

// Demonstrates use of the Wire library
// Controls AD5171 digital potentiometer via I2C/TWI

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// This example code is in the public domain.

#include <Wire.h>

void setup() {
  Wire.begin(); // join i2c bus (address optional for master)
}

byte val = 0;

void loop() {
  Wire.beginTransmission(44); // transmit to device #44 (0x2c)
  // device address is specified in datasheet
  Wire.write(byte(0x00));      // sends instruction byte
  Wire.write(val);             // sends potentiometer value byte
  Wire.endTransmission();      // stop transmitting

  val++;                       // increment value
  if (val == 64) { // if reached 64th position (max)
    val = 0;        // start over from lowest value
  }
  delay(500);
}
```

Errors

```
[
/Applications/Arduino.app/Contents/Java/arduino-builder -dump-prefs -logger=machine -hardware /Applications/Arduino.app/Contents/Java/hardware -hardware /Users/jembox/Library/Arduino15/packages/
/Applications/Arduino.app/Contents/Java/arduino-builder -compile -logger=machine -hardware /Applications/Arduino.app/Contents/Java/hardware -hardware /Users/jembox/Library/Arduino15/packages
Using board 'avrda' from platform in folder: /Users/jembox/Library/Arduino15/packages/Microchip/hardware/megaavr/1.0.0
Using core 'dxc0re' from platform in folder: /Users/jembox/Library/Arduino15/packages/Microchip/hardware/megaavr/1.0.0
Detecting libraries used...
/Applications/Arduino.app/Contents/Java/hardware/tools/avr/bin/avr-g++ -c -g -Os -w -std=gnu++11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-threadsafe-statics -W
Alternatives for Wire.h: [Wire@1.1.2]
ResolveLibrary(Wire.h)
-> candidates: [Wire@1.1.2]
/Applications/Arduino.app/Contents/Java/hardware/tools/avr/bin/avr-g++ -c -g -Os -w -std=gnu++11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-threadsafe-statics -W
/Applications/Arduino.app/Contents/Java/hardware/tools/avr/bin/avr-g++ -c -g -Os -w -std=gnu++11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-threadsafe-statics -W
/Applications/Arduino.app/Contents/Java/hardware/tools/avr/bin/avr-g++ -c -g -Os -w -std=gnu++11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-threadsafe-statics -W
Generating function prototypes...
/Applications/Arduino.app/Contents/Java/hardware/tools/avr/bin/avr-g++ -c -g -Os -w -std=gnu++11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-threadsafe-statics -W
/Applications/Arduino.app/Contents/Java/tools-builder/ctags/5.8-arduino11/ctags -u --language-force=c++ -f - --c++-kinds=svpf --fields=KSTzns --line-directives /var/folders/tv/27v48g250vd
Compiling sketch...
/Applications/Arduino.app/Contents/Java/hardware/tools/avr/bin/avr-g++ -c -g -Os -w -std=gnu++11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-threadsafe-statics -W
Compiling libraries...
Compiling library "Wire"
/Applications/Arduino.app/Contents/Java/hardware/tools/avr/bin/avr-g++ -c -g -Os -w -std=gnu++11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-threadsafe-statics -W
/Users/jembox/Library/Arduino15/packages/Microchip/hardware/megaavr/1.0.0/libraries/Wire/src/Wire.cpp: In member function 'bool TwoWire::swap(uint8_t)':
/Users/jembox/Library/Arduino15/packages/Microchip/hardware/megaavr/1.0.0/libraries/Wire/src/Wire.cpp:258:9: error: 'else' without a previous 'if'
    } else
      ^
Using library Wire at version 1.1.2 in folder: /Users/jembox/Library/Arduino15/packages/Microchip/hardware/megaavr/1.0.0/libraries/Wire
exit status 1
Error compiling for board AVR DA-series.
]
```

Potential Bug Fixes

Fix compiler errors in the file:

Arduino15/packages/Microchip/hardware/megaavr/1.0.0/libraries/Wire/src/Wire.cpp

Sketch Upload after fix:

[![[title](pics/Potentiometer_Post_CompilerFixes.png)]]

[![[title](pics/Potentiometer_Post_CompilerFixes_2.png)]]