# Notes

12/07/21

* initial fork of Trackduino

03/21/22

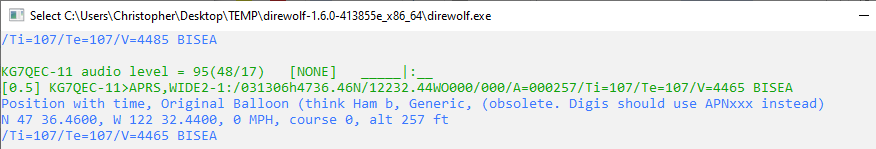
* Tried to build/compile. Ran into error.

03/22/22

* Got radio transmitting

03/23/22

* Got Direwolf decoding position measurements. Temperature and Vin seem fishy. We might need to rewrite the temperature code to use the thermocouples instead of the LM60 sensors.
* Got Pinpoint APRS application to listen to KISS TNC packets and display position.
* Modified Direwolf config file so a .log file is generated. We can probably decode this via Matlab.



**sensors\_avr.cpp**

int sensors\_ext\_lm60()

{

return sensors\_lm60(EXTERNAL\_LM60\_VS\_PIN, EXTERNAL\_LM60\_VOUT\_PIN);

}

int sensors\_int\_lm60()

{

return sensors\_lm60(INTERNAL\_LM60\_VS\_PIN, INTERNAL\_LM60\_VOUT\_PIN);

}

**config.h**

// Pin mappings for the internal / external temperature sensors. VS refers

// to (arduino) digital pins, whereas VOUT refers to (arduino) analog pins.

#define INTERNAL\_LM60\_VS\_PIN 6

#define INTERNAL\_LM60\_VOUT\_PIN 0

#define EXTERNAL\_LM60\_VS\_PIN 7

#define EXTERNAL\_LM60\_VOUT\_PIN 1

// Units for temperature sensors (Added by: Kyle Crockett)

// 1 = Celsius, 2 = Kelvin, 3 = Fahrenheit

#define TEMP\_UNIT 1

// Calibration value in the units selected. Use integer only.

#define CALIBRATION\_VAL 0

// Resistors divider for the voltage meter (ohms)

#define VMETER\_R1 10000

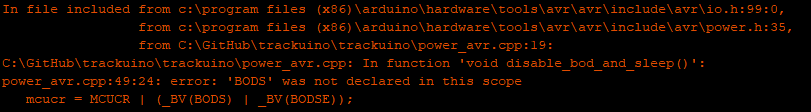
#define VMETER\_R2 3300

// Voltage meter analog pin

#define VMETER\_PIN 2

# Troubleshooting

* BODS was not declared in this scope



Might be an issue with the Board = Arduino Mega. Compiles OK with Board = Arduino Nano.