# **FreeRTOS Installation:**

1. Download the full FreeRTOS zip file from Source Forge here: <https://www.freertos.org/a00104.html>

2. Extract to location of your choice

3. Add these paths to (Alt+F7)-> C/C++ -> General -> Additional Include Directories: (All Configurations)

a. <path-to-freertos>\FreeRTOSv10.0.1\FreeRTOS\Source\include

b. <path-to-freertos> \FreeRTOSv10.0.1\FreeRTOS\Source\portable\GCC\ARM\_CM4F

c.

4. Add these paths to Linker -> General -> Additional Inputs:

a.

# **Thor Installation:**

1. Clone the Thor repo from here: <https://github.com/brandonbraun653/Thor_STM32>

2. Add this path to Additional Include Directories (see FreeRTOS step 3):

a. <path-to-thor>\Thor\_STM32

# **Common Compilation Errors:**

## *Multiple Definitions of ‘\_isatty’*

This is just a bug with compatibility between the FastSemihosting implementation and Newlib-Nano. The easy fix is to comment out the implementation found in FastSemihosting.cpp line 204.