Bugs and their fixes

**Code hangs when running xTaskNotifyFromISR from within ISR:**

The ISR must have a higher priority than the task it is notifying. If the task has a higher priority, the code will switch to the task immediately and will not complete the ISR. Fix is to change the ISR priority to be a low number.

**Code hangs at configASSERT( ( portAIRCR\_REG & portPRIORITY\_GROUP\_MASK ) <= ulMaxPRIGROUPValue );**

Ensure that all preemption priorities are zero. If they are non-zero, FreeRTOS does not work properly and will configAssert (error and loop forever). If all priorities are zero then NVIC\_SetPriorityGrouping( 0 ); can be used before the scheduler starts to ensure they are all zero.