```
AREA
       InterruptStuff, CODE, READONLY
/* Interrupt Request Handler */
   This interrupt request handler will be called by the VIC every
   0.1641417 ms. It contains a count of how many times it has been
   called, storing this in memory at address COUNT. When count has
   reached (1 second) / (0.1641417 milliseconds) = 6 092.29708 ~ 6,092
   then it has been approximately a second. Hanlder will then increment
   seconds counter at memory address SECONDS
irqhan
 SUB LR, LR, #4
                                       //Adjust the LR to last location
 STMFD SP!, {RO-R1, LR}
                                       // Preserve registers on the stack
 LDR R1, =COUNT
                                       // Count of Interrupt calls
 LDR R0, [R1]
 ADD RO, RO, #1
                                       // count ++
 CMP RO, #6092
                                      // If count == 6092
 BLT saveCount
                                      // updateSeconds()
 LDR RO, =SECONDS
                                  // loadSeconds()
// seconds++
 LDR R1, [R0]
 ADD R1, R1, #1
 STR R1, [R0]
                                      // storeSeconds()
 LDR R0, =0
                                      // count = 0
 LDR R1, =COUNT
saveCount
 STR R0, [R1]
 LDR RO.=TO
 MOV R1,#TimerResetTimeR0Interrupt
 STR R1,[R0,#IR]
                                     //Remove MRO interrupt request from timer
 LDR RO,=VIC
 MOV
      R1,#0
                                    //Stop VIC from making interrupt to CPU
 STR R1,[R0,#VectAddr]
                                     //Reset VIC
 LDMFD SP!, {RO-R1, PC}^
                                     //Load values off stack, LR loaded into PC
                                     //And also restoring the CPSR (what the ^ does)
```