```
@Done
(a
@
                               macro.inc
@
                 Defines various macros used throughout the code base
@
@ Description: Defines register values used by the audio system.
@ Revision History:
@ Name
        Comment
                                   Date
@ Will Werst
                                   Some lonely night around 6/10/17
             Initial version
@ Will Werst
             Comment
                                   October 2017
@Macro for setting Hardware register at destination with value val
@Registers modified: r0, r1
.macro mSET HREG dest, value
LDR r0, =\dest
LDR r1, =\value
STR r1, [r0]
.endm
.macro mLOADTOREG reg, mem_loc
   LDR \reg,
             =\mem loc
   LDR \reg,
            [\reg]
.endm
.macro mSTOREFROMREG reg, temp_reg, mem_loc
   LDR \temp reg, =\mem loc
   STR \reg, [\temp_reg]
.endm
.macro mSTARTFNC
   PUSH {lr}
.endm
.macro mRETURNFNC
   POP {pc}
.endm
.macro mSTARTINT
   PUSH {r0-r3, lr}
.endm
.macro mRETURNINT
   mSET HREG AIC EOICR, 1
   POP {r0-r3, lr}
   SUBS pc, lr, #WORD SIZE
.endm
@ Macros to handle critical code. Note that r7 is used, the value is restored
@ after critical code section, but since the stack is used to store value
@ in critical code start, its value cannot be preserved during the critical
@ code section.
```

```
.macro mSTARTCRITCODE
    PUSH {r7}
    MRS r7, cpsr
    PUSH {r7}
    ORR r7, r7, #(I_BIT | F_BIT)
    MSR cpsr_c, r7
.endm
.macro mENDCRITCODE
    POP {r7}
    MSR cpsr, r7
    POP {r7}
.endm
```