```
 1    NVIC_ST_CTRL     EQU 0xE000E010
 2    NVIC_ST_RELOAD   EQU 0xE000E014
 3    NVIC_ST_CURRENT  EQU 0xE000E018
 4    SHP_SYSPRI3      EQU 0xE000ED20
 5    RELOAD_VALUE     EQU 0x00001000
 6
 7                     AREA init_isr , CODE, READONLY, ALIGN=2
 8                     THUMB
 9                     EXPORT InitSysTick
10    InitSysTick      PROC
11
12                     LDR     R1,=NVIC_ST_CTRL
13                     MOV     R0,#0
14                     STR     R0,[R1]
15
16                     LDR     R1,=NVIC_ST_RELOAD
17                     LDR     R0,=RELOAD_VALUE
18                     STR     R0,[R1]
19
20                     LDR     R1,=NVIC_ST_CURRENT
21                     STR     R0,[R1]
22
23                     LDR     R1,=SHP_SYSPRI3
24                     MOV     R0,#0x40000000
25                     STR     R0,[R1]
26
27                     LDR     R1,=NVIC_ST_CTRL
28                     MOV     R0,#0x03
29                     STR     R0,[R1]
30
31                     BX      LR
32                     ENDP
33                     ALIGN
34                     END
```