```
/*******************************************************************************
 System Interrupts File

  File Name:
    system_interrupt.c

  Summary:
    Raw ISR definitions.

  Description:
    This file contains a definitions of the raw ISRs required to support th
    interrupt sub-system.

  Summary:
    This file contains source code for the interrupt vector functions in th
    system.

  Description:
    This file contains source code for the interrupt vector functions in th
    system.  It implements the system and part specific vector "stub" funct
    from which the individual "Tasks" functions are called for any modules
    executing interrupt-driven in the MPLAB Harmony system.

  Remarks:
    This file requires access to the systemObjects global data structure th
    contains the object handles to all MPLAB Harmony module objects executi
    interrupt-driven in the system.  These handles are passed into the indi
    module "Tasks" functions to identify the instance of the module to main
 *******************************************************************************

// DOM-IGNORE-BEGIN
/*******************************************************************************
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 *****************************************************************************
// DOM-IGNORE-END

// *****************************************************************************
// *****************************************************************************
// Section: Included Files
// *****************************************************************************
// *****************************************************************************

#include "system/common/sys_common.h"
#include "app.h"
#include "system_definitions.h"

// *****************************************************************************
// *****************************************************************************
// Section: System Interrupt Vector Functions
// *****************************************************************************
// *****************************************************************************



void __ISR(_TIMER_1_VECTOR, ipl2AUTO) IntHandlerDrvTmrInstance0(void)
{
    PLIB_INT_SourceFlagClear(INT_ID_0,INT_SOURCE_TIMER_1);

    static int count= 0;

    if(count < 3000)
    {
        count ++;
    }
    else
    {
        APP_UpdateState(APP_STATE_SERVICE_TASKS);
    }
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}
void __ISR(_TIMER_2_VECTOR, ipl1AUTO) IntHandlerDrvTmrInstance1(void)
{
    PLIB_INT_SourceFlagClear(INT_ID_0,INT_SOURCE_TIMER_2);
}
void __ISR(_TIMER_3_VECTOR, ipl1AUTO) IntHandlerDrvTmrInstance2(void)
{
    PLIB_INT_SourceFlagClear(INT_ID_0,INT_SOURCE_TIMER_3);
}

/*******************************************************************************
 End of File
*/
```

*****