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 the interrupt sub-system. Summary: This file contains source code for the interrupt vector functions in the system. Description: This file contains source code for the interrupt vector functions in the system. It implements the system and part specific vector "stub" functions 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 that contains the object handles to all MPLAB Harmony module objects executing interrupt-driven in the system. These handles are passed into the individual module "Tasks" functions to identify the instance of the module to maintain. ****************************** // DOM-IGNORE-BEGIN Copyright (c) 2011-2014 released Microchip Technology Inc. All rights reserved. Microchip licenses to you the right to use, modify, copy and distribute Software only when embedded on a Microchip microcontroller or digital signal controller that is integrated into your product or third party product (pursuant to the sublicense terms in the accompanying license agreement). You should refer to the license agreement accompanying this Software for additional information regarding your rights and obligations. SOFTWARE AND DOCUMENTATION ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MICROCHIP OR ITS LICENSORS BE LIABLE OR OBLIGATED UNDER CONTRACT, NEGLIGENCE, STRICT LIABILITY, CONTRIBUTION, BREACH OF WARRANTY, OR OTHER LEGAL EQUITABLE THEORY ANY DIRECT OR INDIRECT DAMAGES OR EXPENSES

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// DOM-IGNORE-END
// *************************
// ***************************
// Section: Included Files
// *******************************
// ***********************************
#include "system/common/sys_common.h"
#include "app.h"
#include "system_definitions.h"
#include "bsp.h"
// ********************************
// Section: System Interrupt Vector Functions
// ****************************
                  ***********
// ********** TIMER 1 ********
void __ISR(_TIMER_1_VECTOR, ipl1AUTO) IntHandlerDrvTmrInstance0(void)
  static int16 t waitCount = 0;
  static int16 t waitCountHour = 0;
  static int compteur = 0;
  DoDebounce (&DescrSW1, S SW1);
  DoDebounce (&DescrSW2, S SW2);
  DoDebounce (&DescrSW3, S SW3);
  DoDebounce (&DescrSW4, S SW4);
  //Appel de la fonction APP UpdateState() après 3s, tous les 10 cycles
  if(waitCount >= 3000)
     if(compteur >= 10)
        APP UpdateState (APP STATE SERVICE TASKS);
       compteur = 0;
     }
     else
       compteur ++;
     }
  }
  else
    waitCount ++;
```

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```
//Appel de la fonction "incrementSeconde" pour avoir l'heure à jour après réglages
   //toutes les 1 seconde
   if (waitCountHour >= 1000)
       //Indique que l'on est dans le menu principal et que l'heure s'incrémente
      if(etatReglHour == 1)
          incrementSeconde();
      waitCountHour = 0;
   else
      waitCountHour ++;
   PLIB_INT_SourceFlagClear(INT_ID_0,INT_SOURCE_TIMER_1);
// ********** TIMER 2 - 77.5kHz *********
void __ISR(_TIMER_2_VECTOR, ipl3AUTO) IntHandlerDrvTmrInstance1(void)
   PLIB INT SourceFlagClear(INT ID 0, INT SOURCE TIMER 2);
// ********* MODULATION ********
void __ISR(_TIMER_3_VECTOR, ip14AUTO) IntHandlerDrvTmrInstance2(void)
  PLIB INT SourceFlagClear(INT ID 0, INT SOURCE TIMER 3);
   CMD SW R = 0;
// oc3
void ISR(OUTPUT COMPARE 3 VECTOR, ipl1AUTO) IntHandlerDrvOCInstanceO(void)
  PLIB_INT_SourceFlagClear(INT_ID_0, INT_SOURCE_OUTPUT_COMPARE_3);
//oc4
void ISR(OUTPUT COMPARE 4 VECTOR, ipl4AUTO) IntHandlerDrvOCInstance1(void)
   PLIB_INT_SourceFlagClear(INT_ID_0, INT_SOURCE_OUTPUT_COMPARE_4);
End of File
```

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