

```

1  /*****
2  MPLAB Harmony Project Main Source File
3
4  Company:
5  Microchip Technology Inc.
6
7  File Name:
8  main.c
9
10 Summary:
11 This file contains the "main" function for an MPLAB Harmony project.
12
13 Description:
14 This file contains the "main" function for an MPLAB Harmony project. The
15 "main" function calls the "SYS_Initialize" function to initialize the state
16 machines of all MPLAB Harmony modules in the system and it calls the
17 "SYS_Tasks" function from within a system-wide "super" loop to maintain
18 their correct operation. These two functions are implemented in
19 configuration-specific files (usually "system_init.c" and "system_tasks.c")
20 in a configuration-specific folder under the "src/system_config" folder
21 within this project's top-level folder. An MPLAB Harmony project may have
22 more than one configuration, each contained within it's own folder under
23 the "system_config" folder.
24 *****/
25
26 // DOM-IGNORE-BEGIN
27 /*****
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29
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47 (INCLUDING BUT NOT LIMITED TO ANY DEFENSE THEREOF), OR OTHER SIMILAR COSTS.
48 *****/
49 // DOM-IGNORE-END
50
51
52 // ****
53 // ****
54 // Section: Included Files
55 // ****
56 // ****
57
58 #include <stdint.h>           // Defines NULL
59 #include <stdbool.h>          // Defines true
60 #include <stdlib.h>           // Defines EXIT_FAILURE
61 #include "system/common/sys_module.h" // SYS function prototypes
62
63
64 // ****
65 // ****
66 // Section: Main Entry Point
67 // ****
68 // ****
69
70 int main ( void )
71 {
72     /* Initialize all MPLAB Harmony modules, including application(s). */
73     SYS_Initialize ( NULL );

```

```
74
75
76     while ( true )
77     {
78         /* Maintain state machines of all polled MPLAB Harmony modules. */
79         SYS_Tasks ( );
80     }
81
82     /* Execution should not come here during normal operation */
83
84     return ( EXIT_FAILURE );
85 }
86
87
88 /*****
89 End of File
90 */
91
92
```