

```
61  int main ( void )
62  {
63      /* Initialize all modules */
64      SYS_Initialize ( NULL );
65
66      DMA_ChannelCallbackRegister(DMA_CHANNEL_0, TX_DMA_EventHandler, (uintptr_t)NULL);
67      DMA_ChannelCallbackRegister(DMA_CHANNEL_1, RX_DMA_EventHandler, (uintptr_t)NULL);
68
69      DCACHE_INVALIDATE_BY_ADDR((uint32_t *)tx, 10);
70      DCACHE_INVALIDATE_BY_ADDR((uint32_t *)rx, 10);
71
72      DMA_ChannelTransfer(DMA_CHANNEL_1, (void *)&SERCOM2_REGS->SPIM.SERCOM_DATA, rx, sizeof(rx));
73      DMA_ChannelTransfer(DMA_CHANNEL_0, tx, (void *)&SERCOM2_REGS->SPIM.SERCOM_DATA, sizeof(tx));
74
75      while ( true )
76      {
77          /* Maintain state machines of all polled MPLAB Harmony modules. */
78          SYS_Tasks ( );
79      }
80
81      /* Execution should not come here during normal operation */
82
83      return ( EXIT_FAILURE );
84  }
```