

```

25 #include <stddef.h> // Defines NULL
26 #include <stdbool.h> // Defines true
27 #include <stdlib.h> // Defines EXIT_FAILURE
28 #include "definitions.h" // SYS function prototypes
29
30
31 // *****
32 // *****
33 // Section: Main Entry Point
34 // *****
35 // *****
36
37 uint8_t __attribute__((aligned(32))) tx[10] = {0x1F, 0x2F, 0x3F, 0x4F, 0x5F, 0x6F, 0x7F, 0x8F, 0x9F, 0xAF};
38 uint8_t __attribute__((aligned(32))) rx[10];
39
40 /* transfer done flag */
41 volatile bool rx_transfer_done = false;
42 volatile bool tx_transfer_done = false;
43
44 /* This is called after transfer is done */
45 void TX_DMA_EventHandler(DMA_TRANSFER_EVENT event, uintptr_t context)
46 {
47     if (event == DMA_TRANSFER_EVENT_BLOCK_TRANSFER_COMPLETE)
48     {
49         tx_transfer_done = true;
50     }
51 }
52
53 void RX_DMA_EventHandler(DMA_TRANSFER_EVENT event, uintptr_t context)
54 {
55     if (event == DMA_TRANSFER_EVENT_BLOCK_TRANSFER_COMPLETE)
56     {
57         rx_transfer_done = true;
58     }
59 }

```