

```

1  #ifndef DISPLAY_H
2  #define DISPLAY_H
3
4  #include "mbed.h"
5
6  // messages
7  // input messages
8  extern bool      gb_display_on_msg;           // start display
9  extern bool      gb_display_off_msg;          // stop display
10 extern bool      gb_display_update_msg;       // update display
11
12
13 // parameter for gb_display_update_msg (and gb_display_on_msg)
14 extern uint16_t  g_display_segs;              // bits 6:0 are the segments of the
right display
15
16 // bits 14:8 are the segments of the
left display
17
18 // order is GFEDCBA
19 extern bool      gb_display_brightness_msg;    // update brightness
20
21 // parameter for gb_display_brightness_msg (and gb_display_on_msg)
22 extern uint8_t   g_display_brightness;        // percentage (0-99) of brightness
23
24 // output messages
25
26 extern bool volatile gb_display_can_sleep;     //this FSM can sleep
27
28 // the FSM
29 void display_fsm(void);
30
31 // initialize the FSM. The input parameters are pointers to the mbed
// objects associated to display pins dsl, dss and seven_seg bus
32 void display_init(PwmOut *dsl, PwmOut *dss, BusOut *seven_seg);
33
34 #endif // DISPLAY_H

```