

```

1  #ifndef RANGE_FINDER_H
2  #define RANGE_FINDER_H
3
4  #include "mbed.h"
5
6  // messages
7  // input messages
8  extern bool    gb_rf_start_msg;    // start measurement
9  // output messages
10 extern bool    gb_rf_done_msg;     // measurement done
11 // parameter for the previous message
12 extern int32_t g_rf_range_cm;     // measurement result in cm (-1 if error)
13 extern bool volatile gb_rf_can_sleep; // this FSM can sleep
14
15 // the FSM
16 void rf_fsm(void);
17
18 // initialize the FSM. The input parameters are pointers to the mbed
19 // objects associated to sensor pins Trigger & Echo
20 void rf_init(DigitalOut *trg, InterruptIn *ech);
21
22 #endif // RANGE_FINDER_H
23

```