

```

1 // Preprocessor Directives to include the library only once
2 #ifndef _UTS
3 #define _UTS
4
5
6 // Necessary libraries:
7 #include <LPC17xx.H>
8 #include "state.h"
9
10 // New defines
11 #define TH_UTS 10e-6 // Period of the trigger signal.
12 #define THRESHOLD 100 // Measurement threshold.
13
14 // Necessary global variable:
15 extern struct sonar_status sonar; // Sonar state is modified by
the UTS measure.
16
17 // Available functions that can be called:
18 void config_UTS(void); // Configure the Timer3 to
control the UTS.
19 void UTS_trigger(void); // Start with the measurement
sequence by triggering the UTS.
20
21 #endif
22
23

```