

```

1  /*****
2  /*
3  /*          INTERFAC.H
4  /*          Interface Definitions
5  /*          Include File
6  /*          Digital Oscilloscope Project
7  /*          EE/CS 52
8  /*
9  *****/
10
11 /*
12 This file contains the constants for interfacing between the C code and
13 the assembly code/hardware for the Digital Oscilloscope project.
14
15
16 Revision History:
17     3/8/94   Glen George      Initial revision.
18     3/13/94  Glen George      Updated comments.
19     3/17/97  Glen George      Added constant MAX_SAMPLE_SIZE and removed
20                               KEY_UNUSED.
21     5/14/14  Santiago Navonne Changed keypad codes.
22     6/01/14  Santiago Navonne Changed scope and sampling parameters.
23     6/03/14  Santiago Navonne Changed and added display parameters.
24 */
25
26
27
28 #ifndef __INTERFAC_H__
29 #define __INTERFAC_H__
30
31
32 /* library include files */
33 /* none */
34
35 /* local include files */
36 /* none */
37
38
39
40
41 /* constants */
42
43 /* keypad constants */
44 #define KEY_MENU      1    /* <Menu>      */
45 #define KEY_UP        2    /* <Up>        */
46 #define KEY_DOWN      3    /* <Down>      */
47 #define KEY_LEFT      4    /* <Left>      */
48 #define KEY_RIGHT     5    /* <Right>     */
49 #define KEY_ILLEGAL   6    /* illegal key */
50
51 /* display constants */
52 #define SIZE_X         480  /* size in the x dimension */
53 #define SIZE_Y         272  /* size in the y dimension */
54 #define PIXEL_CLEAR    0x00000000 /* pixel off is black */
55 #define PIXEL_LINE     0x001B3830 /* lines are gray */
56 #define PIXEL_TEXT_H   0x00FFFFFF /* highlighted text is white */
57 #define PIXEL_TRACE    0x0000A000 /* trace is green */
58 #define PIXEL_TEXT_N   0x001B3830 /* normal text is gray */
59 #define PIXEL_CURSOR   0x00A00000 /* cursor is red */
60 #define NO_TRACE       0xFFFFFFFF /* no trace found */
61
62 /* scope parameters */
63 #define MIN_DELAY      0      /* minimum trigger delay */
64 #define MAX_DELAY      0xFFFFFE /* maximum trigger delay */
65 #define MIN_LEVEL      -12000  /* minimum trigger level (in mV) */
66 #define MAX_LEVEL      12000   /* maximum trigger level (in mV) */
67
68 /* sampling parameters */
69 #define MAX_SAMPLE_SIZE 512    /* maximum size of a sample (in samples) */
70
71
72 #endif
73

```