

```

1  /*****
2  /*
3  /*          MENU.H          */
4  /*          Menu Functions   */
5  /*          Include File     */
6  /*          Digital Oscilloscope Project */
7  /*          EE/CS 52         */
8  /*
9  *****/
10
11 /*
12  This file contains the constants and function prototypes for the functions
13  which deal with menus (defined in menu.c) for the Digital Oscilloscope
14  project.
15
16
17  Revision History:
18      3/8/94   Glen George      Initial revision.
19      3/13/94  Glen George      Updated comments.
20      3/13/94  Glen George      Added definitions for SELECTED,
21                                OPTION_NORMAL, and OPTION_SELECTED.
22      6/03/14  Santiago Navonne Changed selected menu and option style to HIGHLIGHTED.
23  */
24
25
26
27 #ifndef __MENU_H__
28 #define __MENU_H__
29
30
31 /* library include files */
32 /* none */
33
34 /* local include files */
35 #include "interfac.h"
36 #include "scopedef.h"
37 #include "lcdout.h"
38
39
40
41
42 /* constants */
43
44 /* menu size */
45 #define MENU_WIDTH 16          /* menu width (in characters) */
46 #define MENU_HEIGHT 7         /* menu height (in characters) */
47 #define MENU_SIZE_X (MENU_WIDTH * HORIZ_SIZE) /* menu width (in pixels) */
48 #define MENU_SIZE_Y (MENU_HEIGHT * VERT_SIZE) /* menu height (in pixels) */
49
50 /* menu position */
51 #define MENU_X (LCD_WIDTH - MENU_WIDTH - 1) /* x position (in characters) */
52 #define MENU_Y 0                          /* y position (in characters) */
53 #define MENU_UL_X (MENU_X * HORIZ_SIZE)    /* x position (in pixels) */
54 #define MENU_UL_Y (MENU_Y * VERT_SIZE)     /* y position (in pixels) */
55
56 /* menu colors */
57 #define SELECTED HIGHLIGHTED /* color for a selected menu entry */
58 #define OPTION_SELECTED HIGHLIGHTED /* color for a selected menu entry option */
59 #define OPTION_NORMAL NORMAL /* color for an unselected menu entry option */
60
61 /* number of menu entries */
62 #define NO_MENU_ENTRIES (sizeof(menu) / sizeof(struct menu_item))
63
64
65
66
67 /* structures, unions, and typedefs */
68
69 /* data for an item in a menu */
70 struct menu_item { const char *s; /* string for menu entry */
71                   int h_off; /* horizontal offset of entry */
72                   int opt_off; /* horizontal offset of option setting */
73                   void (*display)(int, int, int); /* option display function */
74                   };
75

```

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76
77
78
79 /* function declarations */
80
81 /* menu initialization function */
82 void init_menu(void);
83
84 /* menu display functions */
85 void clear_menu(void);          /* clear the menu display */
86 void display_menu(void);       /* display the menu */
87 void refresh_menu(void);       /* refresh the menu */
88
89 /* menu update functions */
90 void reset_menu(void);          /* reset the menu to first entry */
91 void next_entry(void);          /* go to the next menu entry */
92 void previous_entry(void);      /* go to the previous menu entry */
93
94 /* menu entry functions */
95 void menu_entry_left(void);     /* do the <Left> key for the menu entry */
96 void menu_entry_right(void);   /* do the <Right> key for the menu entry */
97
98
99 #endif
100

```