

```

1  /*****
2  /*
3  /*          LCDOUT.H
4  /*          LCD Output 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 LCD output
13  functions used in the Digital Oscilloscope project and defined in lcdout.c.
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 enumerated type char_style and updated
20                                function prototypes.
21      6/3/14   Santiago Navonne Added highlighted character style.
22  */
23
24
25
26
27 #ifndef __LCDOUT_H__
28     #define __LCDOUT_H__
29
30
31 /* library include files */
32 /* none */
33
34 /* local include files */
35 /* none */
36
37
38
39
40 /* constants */
41
42 /* character output styles */
43
44 /* size of a character (includes 1 pixel space to the left and below character) */
45 #define VERT_SIZE      8          /* vertical size (in pixels -> 7+1) */
46 #define HORIZ_SIZE     6          /* horizontal size (in pixels -> 5+1) */
47
48
49
50
51 /* structures, unions, and typedefs */
52
53 /* character output styles */
54 enum char_style { NORMAL,          /* "normal video" */
55                  REVERSE,          /* "reverse video" */
56                  HIGHLIGHTED /* highlighted text */
57 };
58
59
60
61
62 /* function declarations */
63
64 void clear_region(int, int, int, int);          /* clear part of the display */
65
66 void plot_hline(int, int, int);                /* draw a horizontal line */
67 void plot_vline(int, int, int);                /* draw a vertical line */
68
69 void plot_char(int, int, char, enum char_style); /* output a character */
70 void plot_string(int, int, const char *, enum char_style); /* output a string */
71
72 int plot_cursor(int, int);                    /* draws the cursor on the trace */
73
74
75 #endif

```