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1 -----
2 --
3 --          GNAT RAVENSCAR for NXT          --
4 --          Copyright (C) 2010-2011, AdaCore --
5 --
6 -----
7
8 -- High-level driver for LCD display.
9
10 with Interfaces; use Interfaces;
11
12 package NXT.Display is
13
14     subtype Char_Columns is Natural range 0 .. 15;
15     subtype Char_Rows    is Natural range 0 .. 7;
16     -- 0,0 is the upper left; 15,7 is lower right
17
18     -- Note: the _Nouupdate (and _Hex) variants do not update the display.
19
20     procedure Clear_Screen_Nouupdate;
21     procedure Clear_Screen;
22
23     procedure Set_Pos (Column : Char_Columns; Row : Char_Rows);
24     -- Set current position.
25
26     procedure Put_Nouupdate (C : Character);
27     procedure Put_Nouupdate (S : String);
28     procedure Put_Nouupdate (V : Integer);
29     procedure Put_Nouupdate (V : Long_Long_Integer);
30     -- Write a character, a string and an integer.
31     -- Only CR and LF control characters are handled.
32     -- Note that the min and max values for Long_Long_Integer will wrap around
33     -- the display.
34
35     procedure Put (C : Character);
36     procedure Put (S : String);
37     procedure Put_Line (S : String);
38     -- Like in Ada.Text_IO.
39
40     procedure Newline_Nouupdate;
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41   procedure Newline;
42   procedure New_Line renames Newline;
43   procedure New_Line_Noupdate renames Newline_Noupdate;
44   -- Like in Ada.Text_IO.
45
46   procedure Screen_Update;
47   -- Synchronize the LCD with the internal buffer.
48
49   procedure Put_Hex (Val : Unsigned_32);
50   procedure Put_Hex (Val : Unsigned_16);
51   procedure Put_Hex (Val : Unsigned_8);
52   -- Write VAL using its hexadecimal representation, without
53   -- updating the LCD.
54
55   procedure Put_Exception (Addr : Unsigned_32);
56   pragma Export (C, Put_Exception);
57   -- Can be called in case of exception.
58
59 end NXT.Display;
60
```