1: // filename ********* Fifo.h *******

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Page: 1
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2: // Header file for the receive FIFO (two versions)
 3: // Jonathan W. Valvano 10/1/07
 5: // This example accompanies the books
 6: //
        "Embedded Microcomputer Systems: Real Time Interfacing",
 7: //
             Thompson, copyright (c) 2006,
        "Introduction to Embedded Microcomputer Systems:
 8: //
9: //
         Motorola 6811 and 6812 Simulation", Brooks-Cole, copyright (c) 2002
11: // Copyright 2006 by Jonathan W. Valvano, valvano@mail.utexas.edu
12: // You may use, edit, run or distribute this file
13: //
         as long as the above copyright notice remains
14:
15:
16:
17: #include <hidef.h> /* common defines and macros */
18: #include <mc9s12dp512.h> /* derivative information */
19: #pragma LINK_INFO DERIVATIVE "mc9s12dp512"
20:
21: #define FIFOSIZE 24
22: /* Number of characters in the Fifo
23: the FIFO is full when it has FifoSize-1 characters */
24: void Fifo_Init(void);
25:
26: /*-----Fifo_Put------
27: Enter one character into the fifo
28: Inputs: 8-bit data
29: Outputs: true if data is properly saved,
             false if data not saved because it was previously full*/
31: int Fifo_Put(unsigned short data);
32:
33: /*-----Fifo_Get------
    Remove one character from the fifo
34:
35: Inputs: pointer to place to return 8-bit data
36: Outputs: true if data is valid,
37:
          false if fifo was empty at the time of the call*/
38: int Fifo_Get(unsigned short *datapt);
39:
40: /*-----Fifo_Status------
41: Check the status of the fifo
42: Inputs: none
43: Outputs: true if there is any data in the fifo */
44: int Fifo_Status(void);
45:
```