```c
 1  /*
 2   * trinamic.c
 3   *
 4   * Created: 17.1.2017 13:27:56
 5   *  Author: atom2
 6   */
 7
 8  #include <avr/io.h>
 9  #include <stdio.h>
10  #include <string.h>
11  #include "common_defs.h"
12  #include "def_init.h"
13  #include <avr/interrupt.h>
14  #include "trinamic.h"
15  #include "uart0.h"
16
17
18  volatile Trinamicpac TR_Buf_In;
19  uint8_t uart0_rx_ptr;
20  uint8_t uart0_buf_rx[BUFFER_CHAR_PACKET];
21
22  volatile Trinamicpac TR_Buf_Out;
23  uint8_t uart1_rx_ptr;
24  uint8_t uart1_buf_rx[BUFFER_CHAR_PACKET];
25
26  uint8_t TR_buf_fill_In()
27  {
28      for (uint8_t i=9;i>0;i--)
29      {
30          TR_Buf_In.b[9-i] = uart0_buf_rx[uart0_rx_ptr-i];
31      }
32      if (uart0_rx_ptr > 17)
33      {
34          uart0_rx_ptr = 0;
35      }
36      return 1;
37  }
38
39  uint8_t TR_buf_fill_Out()
40  {
41      for (uint8_t i=9;i>0;i--)
42      {
43          TR_Buf_Out.b[9-i] = uart1_buf_rx[uart1_rx_ptr-i];
44      }
45      if (uart1_rx_ptr > 17)
46      {
47          uart1_rx_ptr = 0;
48      }
49      return 1;
50  }
51
52
```