

This page is part of the [mios\\_c\\_simulator\\_-\\_debugger](#)

[ACSim\\_console.h](#)

[ACSim\\_console.c](#)

[ACSim\\_mios.h](#)

[ACSim\\_mios.c](#)

[ACSim\\_toolbox.h](#)

**[ACSim\\_toolbox.c](#)**

[ACMidiDefines.h](#)

```
/*
 *   ACSim_toolbox.c
 *   v 0.0.5
 *
 *   2006 April 17 Created by Michael Markert, audiocommander.de
 *   Copyright 2006 Michael Markert, http://www.audiocommander.de
 *   hexview based on publicdomain code:
http://www.eggdrop.ch/texts/cschnipsel/
 *   toolbox for mios: http://www.midibox.org
 *
 */

/*
 * Released under GNU General Public License
 * http://www.gnu.org/licenses/gpl.html
 *
 * This program is free software; you can redistribute it and/or modify it
under the terms
 * of the GNU General Public License as published by the Free Software
Foundation
 *
 * YOU ARE ALLOWED TO COPY AND CHANGE
 * BUT YOU MUST RELEASE THE SOURCE TOO (UNDER GNU GPL) IF YOU RELEASE YOUR
PRODUCT
 * YOU ARE NOT ALLOWED NOT USE IT WITHIN PROPRIETARY CLOSED-SOURCE PROJECTS
 */

#import "ACSim_toolbox.h"

#import "ACSim_console.h"

// generate some random numbers
unsigned char ACRandomBool(void) { return (random() % 2); }
```

```
signed char  ACRandomEncoder(void)    { return ((random() % 2) ? -1 : 1 );  
}  
unsigned char ACRandomPin(void)      { return (random() % DEBUG_AIN_NUM);  
}  
unsigned char ACRandomChar(void)     { return (random() % 128); }  
unsigned int  ACRandomInt(void)      { return (random() % 1024); }
```

```
// hexview output  
// maybe configure defines in header!
```

```
void hexview(unsigned char *buf, int size) {  
    /* usage:  
    char buf[256];  
    strcpy(buf, "some data");  
    hexview(buf, sizeof(buf)); */  
  
    int i;  
    unsigned char c;  
    unsigned char r = 0;  
  
    while (size>0) {  
        printf("%i:\t\t", (r*16));  
        for (i=0; i<HEXVIEW_CHARS; i++) {  
            if (size-i>0) {  
                printf("%02x ", (unsigned char)*(buf+i));  
            } else {  
                printf(" ");  
            }  
        }  
        printf(" ");  
        for (i=0; i<HEXVIEW_CHARS&&size-i>0; i++) {  
            c = (unsigned char)*(buf+i);  
            printf("%c", c>=32&&c<127 ? c : '.');  
        }  
        buf+=HEXVIEW_CHARS;  
        size-=HEXVIEW_CHARS;  
        printf("\n");  
        r++;  
    }  
}
```

From:  
<https://www.midibox.org/dokuwiki/> - **MIDIbox**

Permanent link:  
[https://www.midibox.org/dokuwiki/doku.php?id=acsim\\_toolbox\\_c&rev=1169851668](https://www.midibox.org/dokuwiki/doku.php?id=acsim_toolbox_c&rev=1169851668)

Last update: **2007/08/21 22:15**



