

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

[ACSim\\_console.h](#)

[ACSim\\_console.c](#)

[ACSim\\_toolbox.h](#)

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

[ACSim\\_mios.h](#)

[ACSim\\_mios.c](#)

```
/*
 *  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://wiki.midibox.org/> - **MIDIbox**

Permanent link:

[https://wiki.midibox.org/doku.php?id=acsim\\_toolbox\\_c&rev=1160904901](https://wiki.midibox.org/doku.php?id=acsim_toolbox_c&rev=1160904901)Last update: **2007/01/26 22:47**

