

Control RTS line

<https://github.com/xanthium-enterprises/RTS-DTR-Pin-Control-Linux>

<https://xanthium.in/Controlling-RTS-and-DTR-pins-SerialPort-in-Linux>

<https://www.linuxquestions.org/questions/programming-9/manually-controlling-rts-cts-326590/>

```
#include <stdio.h>
#include <stdlib.h>
#include <termios.h>
#include <unistd.h>
#include <sys/ioctl.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>

static struct termios oldterminfo;

void closeserial(int fd)
{
    tcsetattr(fd, TCSANOW, &oldterminfo);
    if (close(fd) < 0)
        perror("closeserial()");
}

int openserial(char *devicename)
{
    int fd;
    struct termios attr;

    if ((fd = open(devicename, O_RDWR)) == -1) {
        perror("openserial(): open()");
        return 0;
    }
    if (tcgetattr(fd, &oldterminfo) == -1) {
        perror("openserial(): tcgetattr()");
        return 0;
    }
    attr = oldterminfo;
    attr.c_cflag |= CRTSCTS | CLOCAL;
    attr.c_oflag = 0;
    if (tcflush(fd, TCIOFLUSH) == -1) {
        perror("openserial(): tcflush()");
        return 0;
    }
    if (tcsetattr(fd, TCSANOW, &attr) == -1) {
        perror("initserial(): tcsetattr()");
        return 0;
    }
}
```

```
    }
    return fd;
}

int setRTS(int fd, int level)
{
    int status;

    if (ioctl(fd, TIOCMGET, &status) == -1) {
        perror("setRTS(): TIOCMGET");
        return 0;
    }
    if (level)
        status |= TIOCM_RTS;
    else
        status &= ~TIOCM_RTS;
    if (ioctl(fd, TIOCMSET, &status) == -1) {
        perror("setRTS(): TIOCMSET");
        return 0;
    }
    return 1;
}

int main()
{
    int fd;
    char *serialdev = "/dev/ttyS0";

    fd = openserial(serialdev);
    if (!fd) {
        fprintf(stderr, "Error while initializing %s.\n", serialdev);
        return 1;
    }

    setRTS(fd, 0);
    sleep(1);      /* pause 1 second */
    setRTS(fd, 1);

    closeserial(fd);
    return 0;
}
```

From:
<https://niziak.spoX.org/wiki/> - niziak.spoX.org

Permanent link:
https://niziak.spoX.org/wiki/linux:serial_port_rts

Last update: 2018/10/17 11:09



