

```
/*
 * File:   annsig.c
 * Author: Michael Kepple
 * Date:   21 Feb 2013
 */
#include "sig.h"
bool ringBack;

int main()
{
    ringBack = false;
    int pid = getpid();
    struct sigaction action;
    action.sa_handler = usr;
    sigemptyset(&action.sa_mask);
    if (sigaction(SIGUSR1, &action, NULL) < 0)
    {
        perror("sigaction");
        exit(EXIT_FAILURE);
    }
    FILE *file;
    file = fopen("temp.pid", "w+");
    fprintf(file, "%d\n", pid);
    fclose(file);
    while (!ringBack) {}
    printf("\nSIGUSR1 signal received!\n");
}

// SIGUSR Handler
void usr()
{
    ringBack = true;
}
#
# Makefile for annsig/sendsig
# Author: Michael Kepple
# Date:   21 Feb 2013
#
both: sendsig.c annsig.c sig.h
    gcc annsig.c -o annsig
    gcc sendsig.c -o sendsig

/*
 * File:   sendsig.c
 * Author: Michael Kepple
 * Date:   21 Feb 2013
 */
#include "sig.h"
#define MAXPIDLEN 10

int main()
{
    FILE *file;
    file = fopen("temp.pid", "rt");
    char str[MAXPIDLEN];
    int pid = atoi(fgets(str, MAXPIDLEN, file));
    kill(pid, SIGUSR1);
    remove("temp.pid");
}
/*
 * File:   sig.h
 * Author: Michael Kepple
```

```
* Date: 21 Feb 2013
*
*/
#ifndef ANNSIG_H
#define ANNSIG_H
#include <stdlib.h>
#include <stdio.h>
#include <unistd.h>
#include <signal.h>
typedef int bool;
#define true 1
#define false 0
void usr();
#endif
```