

```

#define _GNU_SOURCE /* needed to get the defines */
#include <fcntl.h> /* in glibc 2.2 this has the needed
                  values defined */
#include <signal.h>
#include <stdio.h>
#include <unistd.h>

static volatile int event_fd;

static void handler(int sig, siginfo_t *si, void *data)
{
    event_fd = si->si_fd;
}

int main(void)
{
    struct sigaction act;
    int fd;

    act.sa_sigaction = handler;
    sigemptyset(&act.sa_mask);
    act.sa_flags = SA_SIGINFO;
    sigaction(SIGRTMIN + 1, &act, NULL);

    fd = open(".", O_RDONLY);
    fcntl(fd, F_SETSIG, SIGRTMIN + 1);
    fcntl(fd, F_NOTIFY, DN_MODIFY|DN_CREATE|DN_MULTISHOT);
    /* we will now be notified if any of the files
       in "." is modified or new files are created */
    while (1) {
        pause();
        printf("Got event on fd=%d\n", event_fd);
    }
}

```