



Linux Ubuntu 26.04 Manual Pages on command 'ioctl_pipe.2'

\$ man ioctl_pipe.2

ioctl_pipe(2) System Calls Manual ioctl_pipe(2)

NAME

ioctl_pipe - ioctl() operations for general notification mechanism

SYNOPSIS

```
#include <linux/watch_queue.h> /* Definition of IOC_WATCH_QUEUE_* */

#include <sys/ioctl.h>

int ioctl(int pipefd, IOC_WATCH_QUEUE_SET_SIZE, int size);

int ioctl(int pipefd, IOC_WATCH_QUEUE_SET_FILTER,
          struct watch_notification_filter *filter);
```

DESCRIPTION

The following ioctl(2) operations are provided to set up general notification queue parameters. The notification queue is built on the top of a pipe(2) opened with the O_NOTIFICATION_PIPE flag.

IOC_WATCH_QUEUE_SET_SIZE (since Linux 5.8)

Preallocates the pipe buffer memory so that it can fit size notification messages.

Currently, size must be between 1 and 512.

IOC_WATCH_QUEUE_SET_FILTER (since Linux 5.8)

Watch queue filter can limit events that are received. Filters are passed in a struct watch_notification_filter and each filter is described by a struct watch_notification_type_filter structure.

```
struct watch_notification_filter {
    __u32  nr_filters;
    __u32  __reserved;
```

```
    struct watch_notification_type_filter filters[];  
};  
  
struct watch_notification_type_filter {  
    __u32  type;  
    __u32  info_filter;  
    __u32  info_mask;  
    __u32  subtype_filter[8];  
};
```

SEE ALSO

pipe(2), ioctl(2)

Linux man-pages 6.17

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