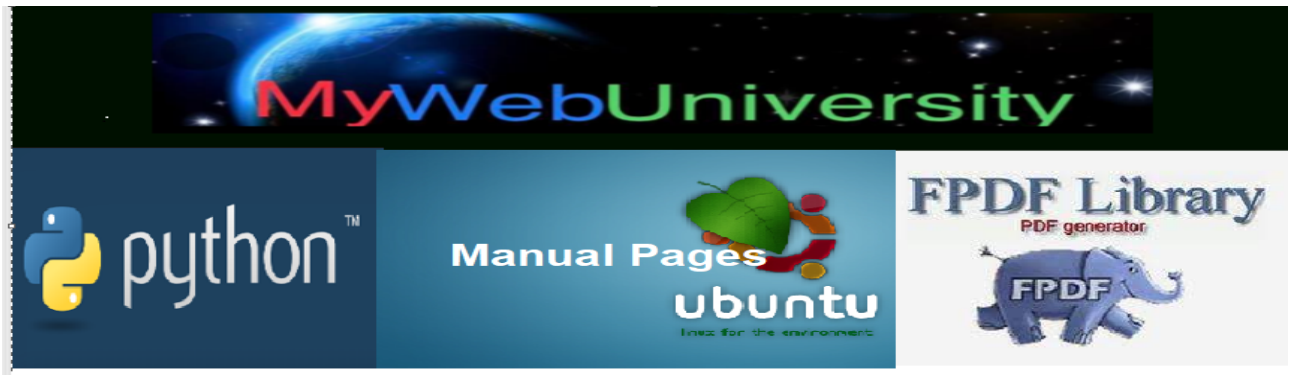

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Linux Ubuntu 26.04 Manual Pages on command 'ioctl_userfaultfd.2'

$ man ioctl_userfaultfd.2

ioctl_userfaultfd(2) System Calls Manual ioctl_userfaultfd(2)

NAME

ioctl_userfaultfd - create a file descriptor for handling page faults in user space

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <linux/userfaultfd.h>  /* Definition of UFFD* constants */
#include <sys/ioctl.h>
int ioctl(int fd, int op, ...);
```

DESCRIPTION

Various ioctl(2) operations can be performed on a userfaultfd object (created by a call to userfaultfd(2)) using calls of the form:

```
ioctl(fd, op, argp);
```

In the above, fd is a file descriptor referring to a userfaultfd object, op is one of the operations listed below, and argp is a pointer to a data structure that is specific to op.

The various ioctl(2) operations are described below. The UFFDIO_API, UFFDIO_REGISTER, and UFFDIO_UNREGISTER operations are used to configure userfaultfd behavior. These operations allow the caller to choose what features will be enabled and what kinds of events will be delivered to the application. The remaining operations are range operations. These opera? tions enable the calling application to resolve page-fault events.

UFFDIO_API(2const)

UFFDIO_REGISTER(2const)

UFFDIO_UNREGISTER(2const)

UFFDIO_COPY(2const)

UFFDIO_MOVE(2const)

UFFDIO_ZEROPAGE(2const)

UFFDIO_WAKE(2const)

UFFDIO_WRITEPROTECT(2const)

UFFDIO_CONTINUE(2const)

UFFDIO_POISON(2const)

RETURN VALUE

On success, 0 is returned. On error, -1 is returned, and errno is set to indicate the er?

ror.

ERRORS

The following general errors can occur for all of the operations described above:

EFAULT argp does not point to a valid memory address.

EINVAL (For all operations except UFFDIO_API.) The userfaultfd object has not yet been en?

abled (via the UFFDIO_API operation).

STANDARDS

Linux.

EXAMPLES

See userfaultfd(2).

SEE ALSO

ioctl(2), mmap(2), userfaultfd(2)

linux.git/Documentation/admin-guide/mm/userfaultfd.rst