



## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'posix\_fadvise.3p' command***

***\$ man posix\_fadvise.3p***

POSIX\_FADVISE(3P)      POSIX Programmer's Manual      POSIX\_FADVISE(3P)

### PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

### NAME

posix\_fadvise ? file advisory information (ADVANCED REALTIME)

### SYNOPSIS

```
#include <fcntl.h>
```

```
int posix_fadvise(int fd, off_t offset, off_t len, int advice);
```

### DESCRIPTION

The `posix_fadvise()` function shall advise the implementation on the expected behavior of the application with respect to the data in the file associated with the open file descriptor, `fd`, starting at `offset` and continuing for `len` bytes. The specified range need not currently exist in the file. If `len` is zero, all data following `offset` is specified.

The implementation may use this information to optimize handling of the specified data. The `posix_fadvise()` function shall have no effect on the semantics of other operations on the specified data, although it may affect the performance of other operations.

The advice to be applied to the data is specified by the `advice` parameter and may be one of the following values:

## POSIX\_FADV\_NORMAL

Specifies that the application has no advice to give on its behavior with respect to the specified data. It is the default characteristic if no advice is given for an open file.

## POSIX\_FADV\_SEQUENTIAL

Specifies that the application expects to access the specified data sequentially from lower offsets to higher offsets.

## POSIX\_FADV\_RANDOM

Specifies that the application expects to access the specified data in a random order.

## POSIX\_FADV\_WILLNEED

Specifies that the application expects to access the specified data in the near future.

## POSIX\_FADV\_DONTNEED

Specifies that the application expects that it will not access the specified data in the near future.

## POSIX\_FADV\_NOREUSE

Specifies that the application expects to access the specified data once and then not reuse it thereafter.

These values are defined in `<fcntl.h>`.

## RETURN VALUE

Upon successful completion, `posix_fadvise()` shall return zero; otherwise, an error number shall be returned to indicate the error.

## ERRORS

The `posix_fadvise()` function shall fail if:

**EBADF** The `fd` argument is not a valid file descriptor.

**EINVAL** The value of `advice` is invalid, or the value of `len` is less than zero.

**ESPIPE** The `fd` argument is associated with a pipe or FIFO.

The following sections are informative.

## EXAMPLES

None.

## APPLICATION USAGE

The `posix_fadvise()` function is part of the Advisory Information option and need not be provided on all implementations.

#### RATIONALE

None.

#### FUTURE DIRECTIONS

None.

#### SEE ALSO

`posix_madvise()`

The Base Definitions volume of POSIX.1-2017, `<fcntl.h>`

#### COPYRIGHT

Portions of this text are reprinted and reproduced in electronic form from IEEE Std 1003.1-2017, Standard for Information Technology -- Portable Operating System Interface (POSIX), The Open Group Base Specifications Issue 7, 2018 Edition, Copyright (C) 2018 by the Institute of Electrical and Electronics Engineers, Inc and The Open Group. In the event of any discrepancy between this version and the original IEEE and The Open Group Standard, the original IEEE and The Open Group Standard is the referee document. The original Standard can be obtained online at <http://www.opengroup.org/unix/online.html>.

Any typographical or formatting errors that appear in this page are most likely to have been introduced during the conversion of the source files to man page format. To report such errors, see [https://www.kernel.org/doc/man-pages/reporting\\_bugs.html](https://www.kernel.org/doc/man-pages/reporting_bugs.html).

IEEE/The Open Group

2017

POSIX\_FADVISE(3P)