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***Rocky Enterprise Linux 9.2 Manual Pages on command 'posix\_fallocate.3'***

***\$ man posix\_fallocate.3***

POSIX\_FALLOCATE(3)                      Linux Programmer's Manual                      POSIX\_FALLOCATE(3)

**NAME**

posix\_fallocate - allocate file space

**SYNOPSIS**

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

```
int posix_fallocate(int fd, off_t offset, off_t len);
```

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

```
posix_fallocate():
```

```
  _POSIX_C_SOURCE >= 200112L
```

**DESCRIPTION**

The function `posix_fallocate()` ensures that disk space is allocated for the file referred to by the file descriptor `fd` for the bytes in the range starting at `offset` and continuing for `len` bytes. After a successful call to `posix_fallocate()`, subsequent writes to bytes in the specified range are guaranteed not to fail because of lack of disk space.

If the size of the file is less than `offset+len`, then the file is increased to this size; otherwise the file size is left unchanged.

**RETURN VALUE**

`posix_fallocate()` returns zero on success, or an error number on failure. Note that `errno` is not set.

**ERRORS**

**EBADF** `fd` is not a valid file descriptor, or is not opened for writing.

**EFBIG** `offset+len` exceeds the maximum file size.

**EINTR** A signal was caught during execution.



\* If fd has been opened with the O\_APPEND or O\_WRONLY flags, the function fails with the error EBADF.

In general, the emulation is not MT-safe. On Linux, applications may use fallocate(2) if they cannot tolerate the emulation caveats. In general, this is only recommended if the application plans to terminate the operation if EOPNOTSUPP is returned, otherwise the application itself will need to implement a fallback with all the same problems as the emulation provided by glibc.

#### SEE ALSO

fallocate(1), fallocate(2), lseek(2), posix\_fadvise(2)

#### COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

GNU

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