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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'fileno.3p' command

\$ man fileno.3p

FILENO(3P) POSIX Programmer's Manual FILENO(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

fileno ? map a stream pointer to a file descriptor

SYNOPSIS

```
#include <stdio.h>

int fileno(FILE *stream);
```

DESCRIPTION

The fileno() function shall return the integer file descriptor associated with the stream pointed to by stream.

RETURN VALUE

Upon successful completion, fileno() shall return the integer value of the file descriptor associated with stream. Otherwise, the value -1 shall be returned and errno set to indicate the error.

ERRORS

The fileno() function shall fail if:

EBADF The stream is not associated with a file.

The fileno() function may fail if:

EBADF The file descriptor underlying stream is not a valid file de?

scriptor.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

Without some specification of which file descriptors are associated with these streams, it is impossible for an application to set up the streams for another application it starts with `fork()` and `exec`. In particular, it would not be possible to write a portable version of the `sh` command interpreter (although there may be other constraints that would prevent that portability).

FUTURE DIRECTIONS

None.

SEE ALSO

Section 2.5.1, Interaction of File Descriptors and Standard I/O Streams, `dirfd()`, `fdopen()`, `fopen()`, `stdin`

The Base Definitions volume of POSIX.1?2017, `<stdio.h>`

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