

NAME

clearerr, **clearerr_unlocked**, **feof**, **feof_unlocked**, **ferror**, **ferror_unlocked**, **fileno**, **fileno_unlocked** - check and reset stream status

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <stdio.h>
```

void

```
clearerr(FILE *stream);
```

void

```
clearerr_unlocked(FILE *stream);
```

int

```
feof(FILE *stream);
```

int

```
feof_unlocked(FILE *stream);
```

int

```
ferror(FILE *stream);
```

int

```
ferror_unlocked(FILE *stream);
```

int

```
fileno(FILE *stream);
```

int

```
fileno_unlocked(FILE *stream);
```

DESCRIPTION

The function **clearerr**() clears the end-of-file and error indicators for the stream pointed to by *stream*.

The function **feof**() tests the end-of-file indicator for the stream pointed to by *stream*, returning non-zero if it is set. The end-of-file indicator may be cleared by explicitly calling **clearerr**(), or as a side-effect of other operations, e.g. **fseek**().

The function **ferror()** tests the error indicator for the stream pointed to by *stream*, returning non-zero if it is set.

The function **fileno()** examines the argument *stream* and returns its integer descriptor.

The **clearerr_unlocked()**, **feof_unlocked()**, **ferror_unlocked()**, and **fileno_unlocked()** functions are equivalent to **clearerr()**, **feof()**, **ferror()**, and **fileno()** respectively, except that the caller is responsible for locking the stream with **flockfile(3)** before calling them. These functions may be used to avoid the overhead of locking the stream and to prevent races when multiple threads are operating on the same stream.

ERRORS

These functions should not fail and do not set the external variable *errno*.

SEE ALSO

open(2), **fdopen(3)**, **flockfile(3)**, **stdio(3)**

STANDARDS

The functions **clearerr()**, **feof()**, and **ferror()** conform to ISO/IEC 9899:1990 ("ISO C90").

HISTORY

The functions **clearerr()**, **feof()**, **ferror()**, and **fileno()** first appeared in Version 7 AT&T UNIX.