

**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.