

NAME

tmpfile - create a temporary file

SYNOPSIS

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

```
FILE *tmpfile(void);
```

DESCRIPTION

The **tmpfile()** function opens a unique temporary file in binary read/write (w+b) mode. The file will be automatically deleted when it is closed or the program terminates.

RETURN VALUE

The **tmpfile()** function returns a stream descriptor, or NULL if a unique filename cannot be generated or the unique file cannot be opened. In the latter case, *errno* is set to indicate the error.

ERRORS**EACCES**

Search permission denied for directory in file's path prefix.

EEXIST

Unable to generate a unique filename.

EINTR

The call was interrupted by a signal; see [signal\(7\)](#).

EMFILE

The per-process limit on the number of open file descriptors has been reached.

ENFILE

The system-wide limit on the total number of open files has been reached.

ENOSPC

There was no room in the directory to add the new filename.

EROFS

Read-only filesystem.

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
tmpfile()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89, C99, SVr4, 4.3BSD, SUSv2.

NOTES

POSIX.1-2001 specifies: an error message may be written to *stdout* if the stream cannot be opened.

The standard does not specify the directory that **tmpfile()** will use. Glibc will try the path prefix *P_tmpdir* defined in *<stdio.h>*, and if that fails the directory */tmp*.

SEE ALSO

[exit\(3\)](#), [mkstemp\(3\)](#), [mktemp\(3\)](#), [tempnam\(3\)](#), [tmpnam\(3\)](#)

COLOPHON

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