

NAME

`fopen`, `freopen` — open a stream

SYNOPSIS

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

```
FILE *fopen (filename, type)
```

```
char *filename, *type;
```

```
FILE *freopen (filename, type, stream)
```

```
char *filename, *type;
```

```
FILE *stream;
```

DESCRIPTION

Fopen opens the file named by *filename* and associates a stream with it. *Fopen* returns a pointer to be used to identify the stream in subsequent operations.

Type is a character string having one of the following values:

"r" open for reading

"w" create for writing

"a" append; open for writing at end of file, or create for writing

Freopen substitutes the named file in place of the open *stream*. It returns the original value of *stream*. The original stream is closed, regardless of whether the open ultimately succeeds.

Freopen is typically used to attach the preopened constant names, `stdin`, `stdout`, `stderr`, to specified files.

DIAGNOSTICS

Fopen and *freopen* return the pointer `NULL` if *filename* cannot be accessed.