

Information

public member function

std::filebuf::open

<fstream>

```
filebuf* open (const char* filename,
                                     ios_base::openmode mode);
```

Open file

Opens the file identified by argument filename, associating its content with the file stream buffer object to perform input/output operations on it. The operations allowed and some operating details depend on parameter mode.

If the object is already associated with a file (i.e., it is already open), this function fails.

Parameters

filename

String with the name of the file to open.

mode

Flags describing the requested input/output mode for the file.

This is an object of the bitmask type ios_base::openmode that consists of a combination of the following constants:

value	stands for	access	
ios_base::in	in put	File open for reading, supporting input operations.	
ios_base::out	out put	File open for writing, supporting output operations.	
ios_base::binary	binary	Operations are performed in binary mode rather than text.	
ios_base::ate	at e nd	The put pointer (pptr) starts at the end of the controlled output sequence.	
ios_base::app	app end	All output operations happen at the end of the file, appending to its existing contents.	
ios_base::trunc	truncate	Any contents that existed in the file before it is open are discarded.	

These flags can be combined with the bitwise OR operator (|).

If the mode has both ios_base::trunc and ios_base::app set, the opening operation fails. It also fails if either is set but ios_base::out is not, or if both ios_base::app and ios_base::in are set.

If the mode has both ios_base::trunc and ios_base::app set, the opening operation fails. It also fails if ios_base::trunc is set but ios_base::out is not.

🤁 Return Value

The function returns this if successful.

In case of failure, the file is not open, and a null pointer is returned.

🦞 Example

```
1 // filebuf::open()
 2 #include <iostream>
  #include <fstream>
 5 int main () {
   std::ifstream is;
    std::filebuf * fb = is.rdbuf();
    fb->open ("test.txt",std::ios::out|std::ios::app);
10
     // >> appending operations here <<
12
13
    fb->close();
14
     return 0;
16 }
```

Data races

Modifies the filebuf object.

Concurrent access to the same file stream buffer object may introduce data races.

Exception safety

Basic guarantee: if an exception is thrown, the *file stream buffer* is in a valid state.

See also	
filebuf::is_open	Check if a file is open (public member function)
filebuf::close	Close file (public member function)