

for	access
<b>in</b> put	File open for reading: the internal stream buffer supports input operations.
<b>out</b> put	File open for writing: the internal stream buffer supports output operations.
binary	Operations are performed in binary mode rather than text.
<b>at e</b> nd	The <i>output position</i> starts at the end of the file.
<b>app</b> end	All output operations happen at the end of the file, appending to its existing contents.
<b>trunc</b> ate	Any contents that existed in the file before it is open are discarded.
	nput binary at end append

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

\* out is always set for ofstream objects (even if explicitly not set in argument mode).

Note that even though ofstream is an output stream, its internal filebuf object may be set to also support input operations.

```
C++98 C++11 🔞
```

If the mode has both trunc and app set, the opening operation fails. It also fails if both app and in are set simultaneously.

# **Return** Value

(++II

C++II

If the function fails to open a file, the failbit state flag is set for the stream (which may throw ios\_base::failure if that state flag was registered using member exceptions).

# 🦞 Example

```
1 // ofstream::open / ofstream::close
                                                                      £03
  #include <fstream>
                           // std::ofstream
 4 int main () {
    std::ofstream ofs:
    ofs.open ("test.txt", std::ofstream::out | std::ofstream::app);
    ofs << " more lorem ipsum";
10
11
    ofs.close();
    return 0;
```

ofstream::close ofstream::is\_open ofstream::open

ofstream::rdbuf

ofstream::swap

ofstream::operator=

non-member overloads: swap (basic\_ofstream)

Not logged in

<fstream>

log in

register

#### Data races

Modifies the ofstream object.

Concurrent access to the same *stream* object introduce data races.

### Exception safety

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

It throws an exception of member type failure if the function fails (setting the failbit state flag) and member exceptions was set to throw for that state.

# See also

*	
ofstream::is_open	
ofstream::close	Close file (public member function )
filebuf::open	Open file (public member function )

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