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filebuf

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public member function

std::filebuf::is_open

<fstream>

```
bool is_open() const;
```

Check if a file is open

Returns whether the object is currently associated to a file (i.e., *open*).

The function returns true if a previous call to member *open* succeeded and there have been no calls to member *close* since.

Parameters

none

Return Value

true if a file is open and associated with this *file stream buffer* object.
false otherwise.

Example

```
1 // filebuf::is_open() example
2 #include <iostream>
3 #include <fstream>
4
5 int main () {
6     std::ifstream is;
7     std::filebuf * fb = is.rdbuf();
8     fb->open ("test.txt",std::ios::in);
9
10    if ( fb->is_open() )
11        std::cout << "the file is open.\n";
12    else
13        std::cout << "the file is not open.\n";
14
15    fb->close();
16
17    return 0;
18 }
```

Data races

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

Exception safety

Strong guarantee: if an exception is thrown, there are no changes in the *file stream buffer*.

See also

filebuf::open

Open file (public member function)

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