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Reference

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ifstream

ifstream::ifstream

public member functions:

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PatchIT Updating Library

PatchIT offers fully automated updating libraries for coding

public member function

std::ifstream::is_open

<fstream>

C++98 C++11 ?

bool is_open();

Check if a file is open

Returns whether the stream is currently associated to a file.

Streams can be associated to files by a successful call to member [open](#) or directly on construction, and disassociated by calling [close](#) or on destruction.

The file association of a stream is kept by its *internal stream buffer*: Internally, the function calls [rdbuf\(\)](#)->[is_open\(\)](#)

Parameters

none

Return Value

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

Example

```

1 // ifstream::is_open
2 #include <iostream>      // std::cout
3 #include <fstream>      // std::ifstream
4
5 int main () {
6     std::ifstream ifs ("test.txt");
7
8     if (ifs.is_open()) {
9         // print file:
10        char c = ifs.get();
11        while (ifs.good()) {
12            std::cout << c;
13            c = ifs.get();
14        }
15    }
16    else {
17        // show message:
18        std::cout << "Error opening file";
19    }
20
21    return 0;
22 }
```

Data races

Accesses the [ifstream](#) object.
Concurrent access to the same *stream* may introduce data races.

Exception safety

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

See also

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

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