



Search: Go

Reference <fstream> filebuf overflow

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C++

Information
Tutorials
Reference
Articles
Forum

Reference

C library:
Containers:
Input/Output:
<fstream>
<iomanip>
<ios>
<iosfwd>
<iostream>
<istream>
<ostream>
<sstream>
<streambuf>
Multi-threading:
Other:

<fstream>

class templates:
basic_filebuf
basic_fstream
basic_ifstream
basic_ofstream

classes:
filebuf
fstream
ifstream
ofstream
wfilebuf
wfstream
wifstream
wofstream

filebuf

filebuf::filebuf
filebuf::~filebuf

public members:
filebuf::close
filebuf::is_open
filebuf::open
filebuf::operator=
filebuf::swap

protected virtual members:
filebuf::imbue
filebuf::overflow
filebuf::pbackfail
filebuf::seekoff
filebuf::seekpos
filebuf::setbuf
filebuf::showmanyc
filebuf::sync
filebuf::uflow
filebuf::underflow

non-member overloads:
swap (filebuf)

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AddressSanitizer

Detects buffer overflows and use-after-free in C++. Open source



protected virtual member function
std::filebuf::overflow <fstream>

```
int overflow (int c = EOF);
```

Put character on overflow
Writes the contents of the *intermediate output buffer* to the associated file, followed by *c* (unless *c* is *EOF*).

The function uses `codecv_t::out` to convert the characters out with the proper facet. It then updates the pointers that define the *intermediate output buffer* (*pptr*, *epptr* and *pbase*) in such a way that the characters written to the file are not part of it, and -possibly- writing positions are made available at the *put pointer* (*pptr*).

If the function cannot write the characters, it returns the *end-of-file* value (*EOF*) to signal failure.

This function is called by public member functions of its base class such as *sputc* to put a character when there are no writing positions available at the *put pointer* (*pptr*).

This member function overrides the inherited virtual member *streambuf::overflow*.

Parameters

c

Character to be put.
If this is the *end-of-file* value (*EOF*), no character is put, but the other effects of calling this function are attempted.

Return Value

In case of success, the character put is returned, as a value of type *int*.
Otherwise, it returns the *end-of-file* value (*EOF*) either if called with this value as argument *c* or to signal a failure (some implementations may throw an exception instead).

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

streambuf::overflow	Put character on overflow (protected virtual member function)
streambuf::sputc	Store character at current put position and increase put pointer (public member function)

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