

## Return Value

The ostream object (\*this).

Errors are signaled by modifying the internal state flags:

	flag	error
	eofbit	-
	failbit	May be set if the construction of sentry failed.
		Either an insertion on the stream failed, or some other error happened (such as when this function catches an
	badbit	exception thrown by an internal operation).
		When set, the integrity of the stream may have been affected.
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Multiple flags may be set by a single operation.

If the operation sets an internal state flag that was registered with member exceptions, the function throws an exception of member type failure.

# Example

0++1

```
1 // Copy a file
                                                               #include <fstream>
                           // std::ifstream, std::ofstream
  int main () {
    std::ifstream infile ("test.txt",std::ifstream::binary);
     std::ofstream outfile ("new.txt",std::ofstream::binary);
       get size of file
 9
     infile.seekg (0,infile.end);
    long size = infile.tellg();
10
11
     infile.seekg (0);
13
     // allocate memory for file content
14
     char* buffer = new char[size];
     // read content of infile
     infile.read (buffer, size);
18
19
     // write to outfile
    outfile.write (buffer, size);
     // release dynamically-allocated memory
     delete[] buffer;
24
     outfile.close();
    infile.close();
27
     return 0;
28 3
```

ostream

ostream::ostream ostream::~ostream

member classes:

ostream::sentry member functions: ostream::flush ostream::operator<< ostream::put ostream::seekp ostream::tellp ostream::write

non-member overloads: operator << (ostream)

PatchIT Updating Librar

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protected members:

ostream::operator=

ostream::swap

This example copies a file into memory and then writes its content to a new file.

#### Data races

Access up to n characters pointed by s.

Modifies the stream object.

Concurrent access to the same stream object may cause data races, except for the standard stream objects (cout, cerr, clog) when these are synchronized with stdio (in this case, no data races are initiated, although no guarantees are given on the order in which characters from multiple threads are inserted).

## Exception safety

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

It throws an exception of member type failure if the resulting error state flag is not goodbit and member exceptions was set to throw for that state.

Any exception thrown by an internal operation is caught and handled by the function, setting badbit. If badbit was set on the last call to exceptions, the function rethrows the caught exception.

### ∳ See also

ostream::put	Put character (public member function )
ostream::operator<<	Insert formatted output (public member function )
istream::read	Read block of data (public member function )

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