cplusplus.com Search: Go
Not logged in
Reference <ios> ios_base iostate
register log in

C++
Information
Tutorials
Reference
Articles
Forum

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

<ios>
types:
basic_ios
fpos
ios
ios_base
io_errc C++11
streamoff
streampos
streamsize
wios
wstreampos
manipulators:
boolalpha
dec
defaultfloat C++11
fixed
hex
hexfloat C++11
internal
left
noboolalpha
noshowbase
noshowpoint
noshowpos
noskipws
nounitbuf
nouppercase
oct
right
scientific
showbase
showpoint
showpos
skipws
unitbuf
uppercase
other functions:
iostream_category C++11

ios_base
ios_base::ios_base
ios_base::~ios_base
member functions:
ios_base::flags
ios_base::getloc
ios_base::imbue
ios_base::iword
ios_base::precision
ios_base::pword
ios_base::register_callback
ios_base::setf
ios_base::sync_with_stdio
ios_base::unsetf

public member type

std::ios_base::iostate

<ios> <iostream>

Type for stream state flags

Bitmask type to represent stream *error state flags*.

All stream objects keep information on the state of the object internally. This information can be retrieved as an element of this type by calling member function `basic_ios::rdstate` or set by calling `basic_ios::setstate`.

The values passed and retrieved by these functions can be any valid combination (using the boolean `OR` operator, "|") of the following member constants:

flag value	indicates
`eofbit`	End-Of-File reached while performing an extracting operation on an input stream.
`failbit`	The last input operation failed because of an error related to the internal logic of the operation itself.
`badbit`	Error due to the failure of an input/output operation on the stream buffer.
`goodbit`	No error. Represents the absence of all the above (the value zero).

These constants are defined in the `ios_base` class as public members. Therefore, they can be referred to either directly by their name as `ios_base` members (like `ios_base::badbit`) or by using any of their inherited classes or instantiated objects, like for example `ios::eofbit` or `cin.goodbit`.

See also

ios::rdstate	Get error state flags (public member function)
ios::setstate	Set error state flag (public member function)
ios::good	Check whether state of stream is good (public member function)
ios::bad	Check whether badbit is set (public member function)
ios::fail	Check whether either failbit or badbit is set (public member function)
ios::eof	Check whether eofbit is set (public member function)

ios_base::width
ios_base::xalloc
member types:
ios_base::event
ios_base::event_callback
ios_base::failure
ios_base::fmtflags
ios_base::Init
ios_base::iostate
ios_base::openmode
ios_base::seekdir

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