

	field	member functions	description
Forma	tting fill character	fill	Character to pad a formatted field up to the field width (width).
State	error state	rdstate setstate clear	The current error state of the stream. Individual values may be obtained by calling good, eof, fail and bad. See member type iostate.
	exception mask	exceptions	The state flags for which a failure exception is thrown. See member type iostate.
Other	tied stream	tie	Pointer to output stream that is flushed before each i/o operation on this stream.
Other	stream buffer	rdbuf	Pointer to the associated streambuf object, which is charge of all input/output operations. $ \label{eq:continuous} $

Member types definition member type char_type traits_type char_traits<char> int_type int pos_type streampos

streamoff

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off_type Along with the member types inherited from ios_base:

event	Type to indicate event type (public member type)
event_callback	
failure	Base class for stream exceptions (public member class)
fmtflags	Type for stream format flags (public member type)
Init	Initialize standard stream objects (public member class)
iostate	Type for stream state flags (public member type)
openmode	Type for stream opening mode flags (public member type)
seekdir	Type for stream seeking direction flag (public member type)

ios	
ios::ios	
ios::~ios	
public members:	
···· ios::bad	J
···· ios::clear	П
···· ios::copyfmt	н
···· ios::eof	
···· ios::exceptions	
···· ios::fail	5
···· ios::fill	
···· ios::good	П
···· ios::imbue	
···· ios::narrow	

boolalpha dec defaultfloat

fixed hex hexfloat

internal left noboolalpha

noshowbase

noshowpoint

noshowpos

noskipws

nounitbuf

scientific showhase showpoint showpos skipws unitbuf uppercase other functions: iostream_category

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right

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fx Public member functions

(constructor)	Construct object (public member function)
(destructor)	Destroy object (public member function)

State flag functions:

good	Check whether state of stream is good (public member function)
eof	Check whether eofbit is set (public member function)
fail	Check whether either failbit or badbit is set (public member function)

02/09/2015 ios - C++ Reference



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bad	Check whether badbit is set (public member function)
operator!	Evaluate stream (not) (public member function)
operator bool 🚥	Evaluate stream (public member function)
rdstate	Get error state flags (public member function)
setstate	Set error state flag (public member function)
clear	Set error state flags (public member function)

Formatting:

copyfmt	Copy formatting information (public member function)
fill	Get/set fill character (public member function)

Other:

exceptions	Get/set exceptions mask (public member function)
imbue	Imbue locale (public member function)
tie	Get/set tied stream (public member function)
rdbuf	Get/set stream buffer (public member function)
narrow	Narrow character (public member function)
widen	Widen character (public member function)

fx Protected member functions

init	Initialize object (protected member function)	
move 👊	Move internals (protected member function)	
swap 👊	Swap internals (protected member function)	
set_rdbuf [***	Set stream buffer (protected member function)	

fx Public member functions inherited from ios_base

flags	Get/set format flags (public member function)	
setf	Set specific format flags (public member function)	
unsetf	Clear specific format flags (public member function)	
precision	Get/Set floating-point decimal precision (public member function)	
width	Get/set field width (public member function)	
imbue	Imbue locale (public member function)	
getloc	Get current locale (public member function)	
xalloc	Get new index for extensible array [static] (public static member function)	
iword	Get integer element of extensible array (public member function)	
pword	Get pointer element of extensible array (public member function)	
register_callback	Register event callback function (public member function)	
sync_with_stdio	Toggle synchronization with cstdio streams [static] (public static member function)	

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