

class templates: basic ostream classes: ostream wostream manipulators: endl ends flush

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) protected members: ostream::operator= 0++1 ostream::swap Answers to C++ Question
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Objects of this class keep a set of internal fields inherited from ios_base and ios:

char_traits<char> Aliased as member traits_type

definition

char

	field	member functions	description
	format flags	flags setf unsetf	A set of internal flags that affect how certain input/output operations are interpreted or generated. See member type fmtflags.
	field width	width	Width of the next formatted element to insert.
Formatting	display precision	precision	Decimal precision for the next floating-point value inserted.
State	locale	getloc imbue	The locale object used by the function for formatted input/output operations affected by localization properties.
	fill character	fill	Character to pad a formatted field up to the field width (width).
	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	callback stack	register_callback	Stack of pointers to functions that are called when certain events occur.
	extensible arrays	iword pword xalloc	Internal arrays to store objects of type long and void*.
	tied stream	tie	Pointer to output stream that is flushed before each i/o operation on this stream.
	stream buffer	rdbuf	Pointer to the associated streambuf object, which is charge of all input/output operations.

comments

Aliased as member char_type

📃 Member types

template parameter

charT

traits

The class contains the following member class:

Prepare stream for output (public member class)

Along with the following member types:

member type	definition
char_type	char
traits_type	char_traits <char></char>
int_type	int
pos_type	streampos
off_type	streamoff

And these member types inherited from ios_base through ios:

event	Type to indicate event type (public member type)
event_callback	Event callback function type (public member type)
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)

fx Public member functions

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

Formatted output:

operator<<	Insert formatted output (public member function)

Unformatted output:

put	Put character (public member function)
write	Write block of data (public member function)

Positioning:

tellp	Get position in output sequence (public member function)
seekp	Set position in output sequence (public member function)

Synchronization:

flush	Flush output stream buffer (public member function)
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fx Protected member functions

operator= 👊	Move assignment (protected member function)
swap 🚥	Swap internals (protected member function)

fx Public member functions inherited from ios

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