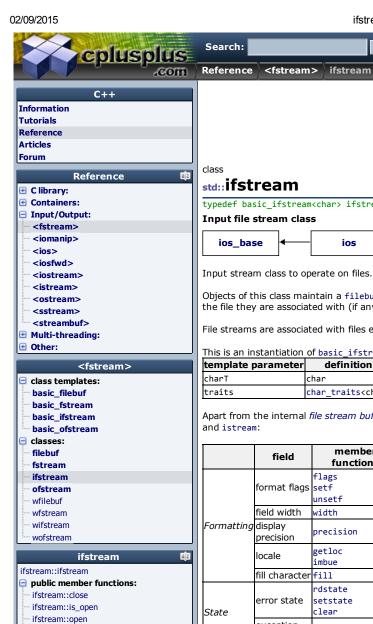
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C++II

C++II (i) ×

<fstream>

typedef basic\_ifstream<char> ifstream;



Objects of this class maintain a filebuf object as their internal stream buffer, which performs input/output operations on the file they are associated with (if any).

File streams are associated with files either on construction, or by calling member open.

This is an instantiation of basic\_ifstream with the following template parameters:

template parameter	definition	comments
charT	char	Aliased as member char_type
traits	char_traits <char></char>	Aliased as member traits_type

Apart from the internal file stream buffer, objects of this class keep a set of internal fields inherited from ios\_base, ios

	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.
	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).
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.
	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.
	character count	gcount	Count of characters read by last unformatted input operation.

#### Member types

The class declares 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

These member types are inherited from its base classes istream and ios\_base:

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 )	

ifstream::operator= ifstream::rdbuf ifstream::swap

C++ Method

non-member overloads: swap (ifstream)

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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 )	
sentry	Prepare stream for input (public member class )	

## fx Public member functions

(constructor)	Construct object and optionally open file (public member function )	
open	Open file (public member function )	
is_open	Check if a file is open (public member function )	
close	Close file (public member function )	
rdbuf	Get stream buffer (public member function )	
operator= [**	Move assignment (public member function )	
swap 👊	Swap internals (public member function )	

# $f\!x$ Public member functions inherited from istream

operator>>	Extract formatted input (public member function )
gcount	Get character count (public member function )
get	Get characters (public member function )
getline	Get line (public member function )
ignore	Extract and discard characters (public member function )
peek	Peek next character (public member function )
read	Read block of data (public member function )
readsome	Read data available in buffer (public member function )
putback	Put character back (public member function )
unget	Unget character (public member function )
tellg	Get position in input sequence (public member function )
seekg	Set position in input sequence (public member function )
sync	Synchronize input buffer (public member function )

# fx Public member functions inherited from ios

Check whether state of stream is good (public member function )
Check whether eofbit is set (public member function )
Check whether either failbit or badbit is set (public member function )
Check whether badbit is set (public member function )
Evaluate stream (not) (public member function )
Evaluate stream (public member function )
Get error state flags (public member function )
Set error state flag (public member function )
Set error state flags (public member function )
Copy formatting information (public member function )
Get/set fill character (public member function )
Get/set exceptions mask (public member function )
Imbue locale (public member function )
Get/set tied stream (public member function )
Get/set stream buffer (public member function )
Narrow character (public member function )
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 )	

Get new index for extensible array [static] (public static member function )	
Get integer element of extensible array (public member function )	
Get pointer element of extensible array (public member function )	
Register event callback function (public member function )	
Toggle synchronization with cstdio streams [static] (public static member function )	

## fx Non-member function overloads

swap [\*\*\*] Swap input file streams (function template )

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