



Search:

Go

Not logged in

Reference

<sstream>

stringbuf

seekoff

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:

<sstream>

class templates:

basic_istream

basic_ostringstream

basic_stringbuf

basic_stringstream

classes:

istream

ostream

stringbuf

stringstream

wstringstream

wostringstream

wstringbuf

wstringstream

stringbuf

stringbuf::stringbuf

public members:

stringbuf::str

virtual members:

stringbuf::overflow

stringbuf::pbackfail

stringbuf::seekoff

stringbuf::seekpos

stringbuf::setbuf

stringbuf::underflow

protected virtual member function

std::stringbuf::seekoff

<sstream>

```
streampos seekoff (streamoff off, ios_base::seekdir way,
                  ios_base::openmode which = ios_base::in | ios_base::out);
```

Set position pointer to relative position

Sets a new position to the position pointers specified by parameter *which*. This position is calculated as an offset of *off* characters relative to a the origin specified by *way*.

If *which* includes `ios_base::in`, the *get pointer* (*gptr*) is affected, and if *which* includes `ios_base::out`, the *put pointer* (*pptr*). Both position pointers can be affected by a single call.

This virtual function is called by the public member `streambuf::pubseekoff`.

Parameters

off

Offset value, relative to the way parameter.
`streamoff` is a signed integral type.

way

Object of type `ios_base::seekdir`, indicating the origin from which the offset is applied. It may take any of the following constant values:

value	offset is relative to...
<code>ios_base::beg</code>	beginning of the character sequence
<code>ios_base::cur</code>	current position of either the <i>get pointer</i> (<i>gptr</i>) or the <i>put pointer</i> (<i>pptr</i>), depending on argument <i>which</i> .
<code>ios_base::end</code>	end of the character sequence

which

Determined which of the *position pointers* is affected: the *input sequence*, the *output sequence*, or both. It is an object of type `ios_base::openmode` that, for this function, may take any combination of the following significant constant values:

value	position pointer affected
<code>ios_base::in</code>	Modifies the <i>get pointer</i> (<i>gptr</i>)
<code>ios_base::out</code>	Modifies the <i>put pointer</i> (<i>pptr</i>)

Both pointers may be selected simultaneously, but if both are selected when *way* is `ios_base::cur`, the function fails.

Return Value

On success, it returns the new absolute position the position pointer points to after the call, if representable as a value of type `streampos`.

On failure, or if the above is not possible, the function returns `streampos(streamoff(-1))`.

`streampos` is a positioning type that can be converted to/from integral types (an `fpos` type).

Data races

Modifies the `stringbuf` object.

Concurrent access to the same object may cause data races.

Exception safety

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

See also

stringbuf::seekpos Set position pointer to absolute position (protected virtual member function)

streambuf::pubseekoff Set internal position pointer to relative position (public member function)

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