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std::unitbuf

<ios> <iostream>

ios_base& unitbuf (ios_base& str);

Flush buffer after insertions

Sets the unitbuf "format" flag for the *str* stream.

When the unitbuf flag is set, the associated buffer is flushed after each insertion operation.

This flag can be unset with the `nounitbuf` manipulator, not forcing flushes after every insertion.

For standard streams, the unitbuf flag is **not set** on initialization.

Parameters

str

Stream object whose *format flag* is affected.

Because this function is a manipulator, it is designed to be used alone with no arguments in conjunction with the *insertion* (<<) and *extraction* (>>) operations on streams (see example below).

Return Value

Argument *str*.

Example

```
1 // modify unitbuf flag
2 #include <ios>           // std::unitbuf
3 #include <fstream>       // std::ofstream
4
5 int main () {
6     std::ofstream outfile ("test.txt");
7     outfile << std::unitbuf << "Test " << "file" << '\n'; // flushed three times
8     outfile.close();
9     return 0;
10 }
```

Data races

Modifies *str*. Concurrent access to the same stream object may cause data races.

Exception safety


Basic guarantee: if an exception is thrown, *str* is in a valid state.

See also

nounitbuf	Do not force flushes after insertions (function)
ios_base::flags	Get/set format flags (public member function)
ios_base::setf	Set specific format flags (public member function)
ios_base::unsetf	Clear specific format flags (public member function)

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