Search:		Go		Nation and i
Reference	<iomanip></iomanip>	setprecision	register	Not logged i

C++
Information
Tutorials
Reference
Articles
Forum

Reference

C library:
Containers:
Input/Output:
<fstream>
<iomanip>
<ios>
<iosfwd>
<iostream>
<istream>
<sstream>
<sstream>
<sstream>
<mathred="mailto:stream">
<mathred="mail

<iomanip>
get_money
get_time
put_money
put_time
resetiosflags
setbase
setfill
setiosflags
setprecision
setw

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function

std::setprecision

<iomanip>

/*unspecified*/ setprecision (int n);

Set decimal precision

Sets the *decimal precision* to be used to format floating-point values on output operations.

Behaves as if member precision were called with n as argument on the stream on which it is inserted/extracted as a manipulator (it can be inserted/extracted on *input streams*).

This manipulator is declared in header <iomanip>.

Parameters

.

New value for the decimal precision.

Return Value

Unspecified. This function should only be used as a stream manipulator (see example).

Example

```
1 // setprecision example
 2 #include <iostream>
                             // std::cout, std::fixed
 3 #include <iomanip>
                             // std::setprecision
 5 int main () {
 6
     double f =3.14159;
     std::cout << std::setprecision(5) << f << '\n';</pre>
     std::cout << std::setprecision(9) << f << '\n';</pre>
     std::cout << std::fixed;</pre>
10
     std::cout << std::setprecision(5) << f << '\n';</pre>
     std::cout << std::setprecision(9) << f << '\n';</pre>
11
12
     return 0;
13 }
```

Output:

3.1416 3.14159 3.14159 3.141590000

Data races

The stream object on which it is inserted/extracted is modified. Concurrent access to the same stream object may introduce data races.

Exception safety

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

See also

ios_base::precision	Get/Set floating-point decimal precision (public member function)		
fixed	Use fixed floating-point notation (function)		
scientific	Use scientific floating-point notation (function)		

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