

Doc. No.: X3J16/96-0175
WG21/N0993
Date: September 24, 1996
Project: Programming Language C++
Reply To: Sandra Whitman
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Clause 18 (Language Support Library) Issues List - Version 6

Revision History

Version 1 - February 1, 1995: Distributed in pre-Austin mailing.
Version 2 - May 30, 1995: Distributed in pre-Monterey mailing.
Version 3 - September 26, 1995: Distributed in pre-Tokyo mailing.
Closed issues are compressed to save paper.
Version 4 - May 22, 1996: Distributed in pre-Stockholm mailing.
Version 5 - July 15, 1996: Distributed in post-Stockholm mailing.
Version 6 - September 24, 1996: Distributed in pre-Hawaii mailing.

Introduction

This document is a summary of the issues identified in Clause 18. For each issue the status, a short description, and pointers to relevant reflector messages and papers are given.

Active Issues

Work Group: Library Clause 18
Issue Number: 18-030
Title: Should operator new and delete be defined within the namespace std ?
Sections: 18.4 Dynamic memory management [lib.support.dynamic]
Status: active
Description: Bill Gibbons in c++std-lib-4823

```
>17.3.1.1/2 says:  
>  
> All library entities shall be defined within the namespace std.  
>  
>Shouldn't this say "except operator new and operator delete"?  
>  
>And since this includes "size_t", the declarations of "operator new"  
>in section 18.4 need to qualify "size_t", i.e.  
>  
> size_t => std::size_t
```

Proposed Resolution: Exclude operator new and operator delete from namespace std and change 17.3.1.1/2 to say: All library entities except operator new and operator delete shall be defined within the namespace std.

If this is the case then size_t needs to be qualified as std::size_t in 18.4, 18.4.1.1-18.4.1.3.

Requestor: Bill Gibbons
Owner: Sandra Whitman
Emails: c++std-lib-4823
Papers: None

Closed Issues

Issue Number: 18-001
Title: Typedef typedef void fvoid_t(); not used anywhere

Last Doc.: N0784=95-0184

Issue Number: 18-002
Title: Redundant typedefs
Last Doc.: N0784=95-0184

Issue Number: 18-003
Title: Call to set_new_handler() with null pointer
Last Doc.: N0784=95-0184

Issue Number: 18-004
Title: Inherited members explicitly mentioned
Last Doc.: N0784=95-0184

Issue Number: 18-005
Title: Call to set_terminate() or set_unexpected() with null pointer
Last Doc.: N0784=95-0184

Issue Number: 18-006
Title: <stdarg.h> and references
Last Doc.: N0784=95-0184

Issue Number: 18-007
Title: denormal_loss member to the numeric_limits class
Last Doc.: N0784=95-0184

Issue Number: 18-008
Title: global operator new
Last Doc.: N0784=95-0184

Issue Number: 18-009
Title: whither exception?
Last Doc.: N0784=95-0184

Issue Number: 18-010
Title: Exception specifications for class numeric_limits
Last Doc.: N0784=95-0184

Issue Number: 18-011
Title: Exception specifications for set_new_handler()
Last Doc.: N0784=95-0184

Issue Number: 18-012
Title: Exception specifications for set_unexpected() and set_terminate()
Last Doc.: N0784=95-0184

Issue Number: 18-013
Title: deleting a pointer obtained by a nothrow version of
"operator new"
Last Doc.: N0784=95-0184

Issue Number: 18-014
Title: nothrow versions of "operator delete"
Last Doc.: N0784=95-0184

Issue Number: 18-015
Title: Should terminate() and unexpected() be in <exception> ?
Last Doc.: N0935R1=96-0117R1
Resolution: closed, no action (Stockholm)

Issue Number: 18-016
Title: numeric_limits and LIA-1/WG14/C Compliance
Last Doc.: N0935R1=96-0117R1
Resolution: closed, no action (Stockholm)

Issue Number: 18-017

Title: Run-time Dependent traps in numeric_limits
Last Doc.: N0935R1=96-0117R1
Resolution: closed, no action (Stockholm)

Issue Number: 18-018
Title: Run-time Dependent Rounding in numeric_limits
Last Doc.: N0935R1=96-0117R1
Resolution: closed, no action (Stockholm)

Issue Number: 18-019
Title: Extra Denorm Members in numeric_limits in Support of IEC 559
Last Doc.: N0935R1=96-0117R1
Resolution: closed, no action (Stockholm)

Issue Number: 18-020
Title: numeric_limits static const int/bool Members Must be
Constant Expressions.
Last Doc.: N0935R1=96-0117R1
Resolution: accepted proposal (Stockholm)

Issue Number: 18-021
Title: Correction to nothrow in <new>
Last Doc.: N0935R1=96-0117R1
Resolution: accepted proposal 3 with modifications (Stockholm)

Issue Number: 18-022
Title: Make nothrow a Type Instead of a Value.
Last Doc.: N0935R1=96-0117R1
Resolution: accepted as editorial change (Stockholm)

Issue Number: 18-023
Title: Array Form of Operator delete[] Added to 18.4.1.2
Last Doc.: N0935R1=96-0117R1
Resolution: accepted as editorial change (Stockholm)

Issue Number: 18-024
Title: Are Some numeric_limits static const Members Really Dynamic ?
Last Doc.: N0935R1=96-0117R1
Resolution: closed, no action (Stockholm)

Issue Number: 18-025
Title: Make references to throw references to throw() in 18.2.1
Last Doc.: N0935R1=96-0117R1
Resolution: accepted as editorial change (Stockholm)

Issue Number: 18-026
Title: type_info from 95-0195/N0795
Last Doc.: N0935R1=96-0117R1
Resolution: rejected, no longer true (Stockholm)

Issue Number: 18-027
Title: Describe rounding error
Last Doc.: N0935R1=96-0117R1
Resolution: accepted as editorial change (Stockholm)

Issue Number: 18-028
Title: Type float_round_style edits
Last Doc.: N0935R1=96-0117R1
Resolution: accepted as editorial change (Stockholm)

Issue Number: 18-029
Title: numeric_limits specializations example editorial changes
Last Doc.: N0935R1=96-0117R1
Resolution: accepted as editorial change (Stockholm)