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X3, INFORMATION PROCESSING SYSTEMS

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Concordance for November 1995 (Tokyo) C++ Working Paper

This document provides a cross-reference between absolute section numbers and the corresponding symbolic names used for cross-references within the Working Paper. Its purpose is to make it easier to replace absolute section numbers by their corresponding names, which in turn will make it easier to renumber sections in future versions of the Working Paper.

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Listing by clause number

1	intro	General
1.1	intro.scope	Scope
1.2	intro.refs	Normative references
1.3	intro.defs	Definitions
1.4	syntax	Syntax notation
1.5	intro.memory	The C++ memory model
1.6	intro.object	The C++ object model
1.7	intro.compliance	Processor compliance
1.8	intro.execution	Program execution
2	lex	Lexical conventions
2.1	lex.phases	Phases of translation
2.2	lex.trigraph	Trigraph sequences
2.3	lex.pptoken	Preprocessing tokens
2.4	lex.digraph	Alternative tokens
2.5	lex.token	Tokens
2.6	lex.comment	Comments
2.7	lex.pppnumber	Preprocessing numbers
2.8	lex.name	Identifiers
2.9	lex.key	Keywords
2.10	lex.literal	Literals
2.10.1	lex.icon	Integer literals
2.10.2	lex.ccon	Character literals
2.10.3	lex.fcon	Floating literals
2.10.4	lex.string	String literals
2.10.5	lex.bool	Boolean literals
3	basic	Basic concepts
3.1	basic.def	Declarations and definitions
3.2	basic.def.odr	One definition rule
3.3	basic.scope	Declarative regions and scopes
3.3.1	basic.scope.pdecl	Point of declaration
3.3.2	basic.scope.local	Local scope
3.3.3	basic.scope.proto	Function prototype scope
3.3.4		Function scope
3.3.5	basic.scope.namespace	Namespace scope
3.3.6	basic.scope.class	Class scope
3.3.7	basic.scope.hiding	Name hiding
3.4	basic.lookup	Name look up
3.4.1	basic.lookup.unqual	Unqualified name look up
3.4.2	basic.lookup.qual	Qualified name look up
3.4.2.1	class.qual	Class members
3.4.2.2	namespace.qual	Namespace members
3.4.3	basic.lookup.elab	Elaborated type specifiers
3.4.4	basic.lookup.classref	Class member access
3.5	basic.link	Program and linkage
3.6	basic.start	Start and termination
3.6.1	basic.start.main	Main function
3.6.2	basic.start.init	Initialization of non-local objects
3.6.3	basic.start.term	Termination
3.7	basic.stc	Storage duration
3.7.1	basic.stc.static	Static storage duration
3.7.2	basic.stc.auto	Automatic storage duration
3.7.3	basic.stc.dynamic	Dynamic storage duration
3.7.3.1	basic.stc.dynamic.allocation	Allocation functions

3.7.3.2	basic.stc.dynamic.deallocation	Deallocation functions
3.7.4	basic.stc.inherit	Duration of sub-objects
3.8	basic.life	Object Lifetime
3.9	basic.types	Types
3.9.1	basic.fundamental	Fundamental types
3.9.2	basic.compound	Compound types
3.9.3	basic.type.qualifier	CV-qualifiers
3.9.4	basic.type.name	Type names
3.10	basic.lval	Lvalues and rvalues
4	conv	Standard conversions
4.1	conv.lval	Lvalue-to-rvalue conversion
4.2	conv.array	Array-to-pointer conversion
4.3	conv.func	Function-to-pointer conversion
4.4	conv.qual	Qualification conversions
4.5	conv.prom	Integral promotions
4.6	conv.fpprom	Floating point promotion
4.7	conv.integral	Integral conversions
4.8	conv.double	Floating point conversions
4.9	conv.fpint	Floating-integral conversions
4.10	conv.ptr	Pointer conversions
4.11	conv.mem	Pointer to member conversions
4.12	conv.class	Base class conversion
4.13	conv.bool	Boolean conversions
5	expr	Expressions
5.1	expr.prim	Primary expressions
5.2	expr.post	Postfix expressions
5.2.1	expr.sub	Subscripting
5.2.2	expr.call	Function call
5.2.3	expr.type.conv	Explicit type conversion (functional notation)
5.2.4	expr.ref	Class member access
5.2.5	expr.post.incr	Increment and decrement
5.2.6	expr.dynamic.cast	Dynamic cast
5.2.7	expr.typeid	Type identification
5.2.8	expr.static.cast	Static cast
5.2.9	expr.reinterpret.cast	Reinterpret cast
5.2.10	expr.const.cast	Const cast
5.3	expr.unary	Unary expressions
5.3.1	expr.unary.op	Unary operators
5.3.2	expr.pre.incr	Increment and decrement
5.3.3	expr.sizeof	Sizeof
5.3.4	expr.new	New
5.3.5	expr.delete	Delete
5.4	expr.cast	Explicit type conversion (cast notation)
5.5	expr.mptr.oper	Pointer-to-member operators
5.6	expr.mul	Multiplicative operators
5.7	expr.add	Additive operators
5.8	expr.shift	Shift operators
5.9	expr.rel	Relational operators
5.10	expr.eq	Equality operators
5.11	expr.bit.and	Bitwise AND operator
5.12	expr.xor	Bitwise exclusive OR operator
5.13	expr.or	Bitwise inclusive OR operator
5.14	expr.log.and	Logical AND operator
5.15	expr.log.or	Logical OR operator

5.16	expr.cond	Conditional operator
5.17	expr.ass	Assignment operators
5.18	expr.comma	Comma operator
5.19	expr.const	Constant expressions
6	stmt.stmt	Statements
6.1	stmt.label	Labeled statement
6.2	stmt.expr	Expression statement
6.3	stmt.block	Compound statement or block
6.4	stmt.select	Selection statements
6.4.1	stmt.if	The <code>if</code> statement
6.4.2	stmt.switch	The <code>switch</code> statement
6.5	stmt.iter	Iteration statements
6.5.1	stmt.while	The <code>while</code> statement
6.5.2	stmt.do	The <code>do</code> statement
6.5.3	stmt.for	The <code>for</code> statement
6.6	stmt.jump	Jump statements
6.6.1	stmt.break	The <code>break</code> statement
6.6.2	stmt.cont	The <code>continue</code> statement
6.6.3	stmt.return	The <code>return</code> statement
6.6.4	stmt.goto	The <code>goto</code> statement
6.7	stmt.dcl	Declaration statement
6.8	stmt.ambig	Ambiguity resolution
7	dcl.dcl	Declarations
7.1	dcl.spec	Specifiers
7.1.1	dcl.stc	Storage class specifiers
7.1.2	dcl.fct.spec	Function specifiers
7.1.3	dcl.typedef	The <code>typedef</code> specifier
7.1.4	dcl.friend	The <code>friend</code> specifier
7.1.5	dcl.type	Type specifiers
7.1.5.1	dcl.type.cv	The <i>cv-qualifiers</i>
7.1.5.2	dcl.type.simple	Simple type specifiers
7.1.5.3	dcl.type.elab	Elaborated type specifiers
7.2	dcl.enum	Enumeration declarations
7.3	basic.namespace	Namespaces
7.3.1	namespace.def	Namespace definition
7.3.1.1	namespace.unnamed	Unnamed namespaces
7.3.1.2	namespace.memdef	Namespace member definitions
7.3.2	namespace.alias	Namespace alias
7.3.3	namespace.udecl	The <code>using</code> declaration
7.3.4	namespace.udir	Using directive
7.4	dcl.asm	The <code>asm</code> declaration
7.5	dcl.link	Linkage specifications
8	dcl.decl	Declarators
8.1	dcl.name	Type names
8.2	dcl.ambig.res	Ambiguity resolution
8.3	dcl.meaning	Meaning of declarators
8.3.1	dcl.ptr	Pointers
8.3.2	dcl.ref	References
8.3.3	dcl.mptr	Pointers to members
8.3.4	dcl.array	Arrays
8.3.5	dcl.fct	Functions
8.3.6	dcl.fct.default	Default arguments
8.4	dcl.fct.def	Function definitions
8.5	dcl.init	Initializers
8.5.1	dcl.init.aggr	Aggregates

8.5.2	dcl.init.string	Character arrays
8.5.3	dcl.init.ref	References
9	class	Classes
9.1	class.name	Class names
9.2	class.mem	Class members
9.3	class.mfct	Member functions
9.3.1	class.mfct.nonstatic	Nonstatic member functions
9.3.2	class.this	The <code>this</code> pointer
9.4	class.static	Static members
9.4.1	class.static.mfct	Static member functions
9.4.2	class.static.data	Static data members
9.5	class.union	Unions
9.6	class.bit	Bit-fields
9.7	class.nest	Nested class declarations
9.8	class.local	Local class declarations
9.9	class.nested.type	Nested type names
10	class.derived	Derived classes
10.1	class.mi	Multiple base classes
10.2	class.member.lookup	Member name lookup
10.3	class.virtual	Virtual functions
10.4	class.abstract	Abstract classes
11	class.access	Member access control
11.1	class.access.spec	Access specifiers
11.2	class.access.base	Access specifiers for base classes
11.3	class.access.dcl	Access declarations
11.4	class.friend	Friends
11.5	class.protected	Protected member access
11.6	class.access.virt	Access to virtual functions
11.7	class.paths	Multiple access
12	special	Special member functions
12.1	class.ctor	Constructors
12.2	class.temporary	Temporary objects
12.3	class.conv	Conversions
12.3.1	class.conv.ctor	Conversion by constructor
12.3.2	class.conv.fct	Conversion functions
12.4	class.dtor	Destructors
12.5	class.free	Free store
12.6	class.init	Initialization
12.6.1	class.expl.init	Explicit initialization
12.6.2	class.base.init	Initializing bases and members
12.7	class.cdtor	Construction and destruction
12.8	class.copy	Copying class objects
13	over	Overloading
13.1	over.load	Overloadable declarations
13.2	over.dcl	Declaration matching
13.3	over.match	Overload resolution
13.3.1	over.match.funcs	Candidate functions and argument lists
13.3.1.1	over.match.call	Function call syntax
13.3.1.1.1	over.call.func	Call to named function
13.3.1.1.2	over.call.object	Call to object of class type
13.3.1.2	over.match.oper	Operators in expressions
13.3.1.3	over.match.user	Initialization by user-defined conversions
13.3.1.4	over.match.ctor	Initialization by constructor
13.3.2	over.match.viable	Viable functions
13.3.3	over.match.best	Best Viable Function

13.3.3.1	over.best.ics	Implicit conversion sequences
13.3.3.1.1	over.ics.scs	Standard conversion sequences
13.3.3.1.2	over.ics.user	User-defined conversion sequences
13.3.3.1.3	over.ics.ellipsis	Ellipsis conversion sequences
13.3.3.1.4	over.ics.ref	Reference binding
13.3.3.2	over.ics.rank	Ranking implicit conversion sequences
13.4	over.over	Address of overloaded function
13.5	over.oper	Overloaded operators
13.5.1	over.unary	Unary operators
13.5.2	over.binary	Binary operators
13.5.3	over.ass	Assignment
13.5.4	over.call	Function call
13.5.5	over.sub	Subscripting
13.5.6	over.ref	Class member access
13.5.7	over.inc	Increment and decrement
13.6	over.built	Built-in operators
14	temp	Templates
14.1	temp.names	Template names
14.2	temp.res	Name resolution
14.2.1	temp.local	Locally declared names
14.2.2	temp.encl	Names from the template's enclosing scope
14.2.3	temp.dep	Dependent names
14.2.4	temp.inject	Non-local names declared within a template
14.3	temp.inst	Template instantiation
14.3.1	temp.linkage	Template linkage
14.3.2	temp.point	Point of instantiation
14.4	temp.explicit	Explicit instantiation
14.5	temp.spec	Template specialization
14.6	temp.class.spec	Class template specializations
14.6.1	temp.class.spec.match	Matching of class template specializations
14.6.2	temp.class.order	Partial ordering of class template specializations
14.6.3	temp.class.spec.mfunc	Member functions of class template specializations
14.7	temp.param	Template parameters
14.8	temp.arg	Template arguments
14.9	temp.type	Type equivalence
14.10	temp.fct	Function templates
14.10.1	temp.arg.explicit	Explicit template argument specification
14.10.2	temp.deduct	Template argument deduction
14.10.3	temp.over	Overload resolution
14.10.4	temp.over.link	Overloading and linkage
14.10.5	temp.over.spec	Overloading and specialization
14.10.6	temp.func.order	Partial ordering of function templates
14.11	temp.mem.func	Member function templates
14.12	temp.mem.class	Member class templates
14.13	temp.friend	Friends
14.14	temp.static	Static members and variables
15	except	Exception handling
15.1	except.throw	Throwing an exception
15.2	except.ctor	Constructors and destructors
15.3	except.handle	Handling an exception
15.4	except.spec	Exception specifications
15.5	except.special	Special functions
15.5.1	except.terminate	The <code>terminate()</code> function
15.5.2	except.unexpected	The <code>unexpected()</code> function

15.5.3	except.uncaught	The <code>uncaught_exception()</code> function
15.6	except.access	Exceptions and access
16	cpp	Preprocessing directives
16.1	cpp.cond	Conditional inclusion
16.2	cpp.include	Source file inclusion
16.3	cpp.replace	Macro replacement
16.3.1	cpp.subst	Argument substitution
16.3.2	cpp.stringize	The <code>#</code> operator
16.3.3	cpp.concat	The <code>##</code> operator
16.3.4	cpp.rescan	Rescanning and further replacement
16.3.5	cpp.scope	Scope of macro definitions
16.4	cpp.line	Line control
16.5	cpp.error	Error directive
16.6	cpp.pragma	Pragma directive
16.7	cpp.null	Null directive
16.8	cpp.predefined	Predefined macro names
17	lib.library	Library introduction
17.1	lib.definitions	Definitions
17.2	lib.description	Method of description (Informative)
17.2.1	lib.structure	Structure of each subclause
17.2.1.1	lib.structure.summary	Summary
17.2.1.2	lib.structure.requirements	Requirements
17.2.1.3	lib.structure.specifications	Specifications
17.2.1.4	lib.structure.see.also	C Library
17.2.2	lib.conventions	Other conventions
17.2.2.1	lib.type.descriptions	Type descriptions
17.2.2.1.1	lib.enumerated.types	Enumerated types
17.2.2.1.2	lib.bitmask.types	Bitmask types
17.2.2.1.3	lib.character.seq	Character sequences
17.2.2.1.3.1	lib.byte.strings	Byte strings
17.2.2.1.3.2	lib.multibyte.strings	Multibyte strings
17.2.2.1.3.3	lib.wide.characters	Wide-character sequences
17.2.2.2	lib.functions.within.classes	Functions within classes
17.2.2.3	lib.objects.within.classes	Private members
17.3	lib.requirements	Library-wide requirements
17.3.1	lib.organization	Library contents and organization
17.3.1.1	lib.contents	Library contents
17.3.1.2	lib.headers	Headers
17.3.1.3	lib.compliance	Freestanding implementations
17.3.2	lib.using	Using the library
17.3.2.1	lib.using.headers	Headers
17.3.2.2	lib.using.linkage	Linkage
17.3.3	lib.constraints	Constraints on programs
17.3.3.1	lib.reserved.names	Reserved names
17.3.3.1.1	lib.macro.names	Macro names
17.3.3.1.2	lib.global.names	Global names
17.3.3.1.3	lib.extern.names	External linkage
17.3.3.2	lib.alt.headers	Headers
17.3.3.3	lib.derived.classes	Derived classes
17.3.3.4	lib.replacement.functions	Replacement functions
17.3.3.5	lib.handler.functions	Handler functions
17.3.3.6	lib.res.on.functions	Other functions
17.3.3.7	lib.res.on.arguments	Function arguments
17.3.4	lib.conforming	Conforming implementations
17.3.4.1	lib.res.on.headers	Headers

17.3.4.2	lib.res.on.macro.definitions	Restrictions on macro definitions
17.3.4.3	lib.global.functions	Global functions
17.3.4.4	lib.member.functions	Member functions
17.3.4.5	lib.reentrancy	Reentrancy
17.3.4.6	lib.protection.within.classes	Protection within classes
17.3.4.7	lib.derivation	Derived classes
17.3.4.8	lib.res.on.exception.handling	Restrictions on exception handling
18	lib.language.support	Language support library
18.1	lib.support.types	Types
18.2	lib.support.limits	Implementation properties
18.2.1	lib.limits	Numeric limits
18.2.1.1	lib.numeric.limits	Template class <code>numeric_limits</code>
18.2.1.2	lib.numeric.limits.members	<code>numeric_limits</code> members
18.2.1.3	lib.round.style	Type <code>float_round_style</code>
18.2.1.4	lib.numeric.special	<code>numeric_limits</code> specializations
18.2.2	lib.c.limits	C Library
18.3	lib.support.start.term	Start and termination
18.4	lib.support.dynamic	Dynamic memory management
18.4.1	lib.new.delete	Storage allocation and deallocation
18.4.1.1	lib.new.delete.single	Single-object forms
18.4.1.2	lib.new.delete.array	Array forms
18.4.1.3	lib.new.delete.placement	Placement forms
18.4.2	lib.alloc.errors	Storage allocation errors
18.4.2.1	lib.bad.alloc	Class <code>bad_alloc</code>
18.4.2.2	lib.new.handler	Type <code>new_handler</code>
18.4.2.3	lib.set.new.handler	<code>set_new_handler</code>
18.5	lib.support.rtti	Type identification
18.5.1	lib.type.info	Class <code>type_info</code>
18.5.2	lib.bad.cast	Class <code>bad_cast</code>
18.5.3	lib.bad.typeid	Class <code>bad_typeid</code>
18.6	lib.support.exception	Exception handling
18.6.1	lib.exception	Class <code>exception</code>
18.6.2	lib.exception.unexpected	Violating <i>exception-specifications</i>
18.6.2.1	lib.bad.exception	Class <code>bad_exception</code>
18.6.2.2	lib.unexpected.handler	Type <code>unexpected_handler</code>
18.6.2.3	lib.set.unexpected	<code>set_unexpected</code>
18.6.2.4	lib.unexpected	<code>unexpected</code>
18.6.3	lib.exception.terminate	Abnormal termination
18.6.3.1	lib.terminate.handler	Type <code>terminate_handler</code>
18.6.3.2	lib.set.terminate	<code>set_terminate</code>
18.6.3.3	lib.terminate	<code>terminate</code>
18.6.4	lib.uncaught	<code>uncaught_exception</code>
18.7	lib.support.runtime	Other runtime support
19	lib.diagnostics	Diagnostics library
19.1	lib.std.exceptions	Exception classes
19.1.1	lib.logic.error	Class <code>logic_error</code>
19.1.2	lib.domain.error	Class <code>domain_error</code>
19.1.3	lib.invalid.argument	Class <code>invalid_argument</code>
19.1.4	lib.length.error	Class <code>length_error</code>
19.1.5	lib.out.of.range	Class <code>out_of_range</code>
19.1.6	lib.runtime.error	Class <code>runtime_error</code>
19.1.7	lib.range.error	Class <code>range_error</code>
19.1.8	lib.overflow.error	Class <code>overflow_error</code>
19.2	lib.assertions	Assertions
19.3	lib.errno	Error numbers

20	lib.utilities	General utilities library
20.1	lib.utility.requirements	Requirements
20.1.1	lib.equalitycomparable	Equality comparison
20.1.2	lib.less-than-comparable	Less than comparison
20.1.3	lib.copyconstructible	Copy construction
20.1.4	lib allocator.requirements	Allocator requirements
20.2	lib.utility	Utility components
20.2.1	lib.operators	Operators
20.2.2	lib.pairs	Pairs
20.3	lib.function.objects	Function objects
20.3.1	lib.base	Base
20.3.2	lib.arithmetic.operations	Arithmetic operations
20.3.3	lib.comparisons	Comparisons
20.3.4	lib.logical.operations	Logical operations
20.3.5	lib.negators	Negators
20.3.6	lib.binders	Binders
20.3.6.1	lib.binder.1st	Template class binder1st
20.3.6.2	lib.bind.1st	bind1st
20.3.6.3	lib.binder.2nd	Template class binder2nd
20.3.6.4	lib.bind.2nd	bind2nd
20.3.7	lib.function.pointer.adaptors	Adaptors for pointers to functions
20.4	lib.memory	Memory
20.4.1	lib.default.allocator	The default allocator
20.4.1.1	lib.allocator.members	allocator members
20.4.1.2	lib.allocator.globals	allocator globals
20.4.1.3	lib.allocator.example	Example allocator
20.4.2	lib.storage.iterator	Raw storage iterator
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20.4.4	lib.specialized.algorithms	Specialized algorithms
20.4.4.1	lib.uninitialized.copy	uninitialized_copy
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20.4.4.3	lib.uninitialized.fill.n	uninitialized_fill_n
20.4.5	lib.auto_ptr	Template class auto_ptr
20.4.5.1	lib.auto_ptr.cons	auto_ptr constructors
20.4.5.2	lib.auto_ptr.members	auto_ptr members
20.4.6	lib.c.malloc	C Library
20.5	lib.date.time	Date and time
21	lib.strings	Strings library
21.1	lib.string.classes	String classes
21.1.1	lib.template.string	Template class basic_string
21.1.1.1	lib.string.char.traits	Template class string_char_traits
21.1.1.2	lib.string.char.traits.members	string_char_traits members
21.1.1.3	lib.basic.string	Template class basic_string
21.1.1.4	lib.string.cons	basic_string constructors
21.1.1.5	lib.string.iterators	basic_string iterator support
21.1.1.6	lib.string.capacity	basic_string capacity
21.1.1.7	lib.string.access	basic_string element access
21.1.1.8	lib.string.modifiers	basic_string modifiers
21.1.1.8.1	lib.string::op+=	basic_string::operator+=
21.1.1.8.2	lib.string::append	basic_string::append
21.1.1.8.3	lib.string::assign	basic_string::assign
21.1.1.8.4	lib.string::insert	basic_string::insert
21.1.1.8.5	lib.string::remove	basic_string::remove
21.1.1.8.6	lib.string::replace	basic_string::replace

21.1.1.8.7	lib.string::copy	basic_string::copy
21.1.1.8.8	lib.string::swap	basic_string::swap
21.1.1.9	lib.string.ops	basic_string string operations
21.1.1.9.1	lib.string::find	basic_string::find
21.1.1.9.2	lib.string::rfind	basic_string::rfind
21.1.1.9.3	lib.string::find.first.of	basic_string::find_first_of
21.1.1.9.4	lib.string::find.last.of	basic_string::find_last_of
21.1.1.9.5	lib.string::find.first.not.of	basic_string::find_first_not_of
21.1.1.9.6	lib.string::find.last.not.of	basic_string::find_last_not_of
21.1.1.9.7	lib.string::substr	basic_string::substr
21.1.1.9.8	lib.string::compare	basic_string::compare
21.1.1.10	lib.string.nonmembers	basic_string non-member functions
21.1.1.10.1	lib.string::op+	operator+
21.1.1.10.2	lib.string::operator==	operator==
21.1.1.10.3	lib.string::op!=	operator!=
21.1.1.10.4	lib.string::op<	operator<
21.1.1.10.5	lib.string::op>	operator>
21.1.1.10.6	lib.string::op<=	operator<=
21.1.1.10.7	lib.string::op>=	operator>=
21.1.1.10.8	lib.string.io	Inserters and extractors
21.1.2	lib.string	Class string
21.1.3	lib.string.traits.members	string_char_traits<char> members
21.1.4	lib.wstring	Class wstring
21.1.5	lib.wstring.members	string_char_traits<wchar_t> members
21.2	lib.c.strings	Null-terminated sequence utilities
22	lib.localization	Localization library
22.1	lib.locales	Locales
22.1.1	lib.locale	Class locale
22.1.1.1	lib.locale.types	locale types
22.1.1.1.1	lib.locale.category	Type locale::category
22.1.1.1.2	lib.locale.facet	Class locale::facet
22.1.1.1.3	lib.locale.id	Class locale::id
22.1.1.2	lib.locale.cons	locale constructors and destructor
22.1.1.3	lib.locale.members	locale members
22.1.1.4	lib.locale.operators	locale operators
22.1.1.5	lib.locale.statics	locale static members
22.1.2	lib.locale.global.templates	locale globals
22.1.3	lib.locale.convenience	Convenience interfaces
22.1.3.1	lib.classification	Character classification
22.1.3.2	lib.conversions	Character conversions
22.2	lib.locale.categories	Standard locale categories
22.2.1	lib.category ctype	The ctype category
22.2.1.1	lib.locale.ctype	Template class ctype
22.2.1.1.1	lib.locale.ctype.members	ctype members
22.2.1.1.2	lib.locale.ctype.virtuals	ctype virtual functions
22.2.1.2	lib.locale.ctype.byname	Template class ctype_byname
22.2.1.3	lib.facet.ctype.special	ctype specializations
22.2.1.3.1	lib.facet.ctype.char.dtor	ctype<char> destructor
22.2.1.3.2	lib.facet.ctype.char.members	ctype<char> members
22.2.1.3.3	lib.facet.ctype.char.statics	ctype<char> static members
22.2.1.3.4	lib.facet.ctype.char.virtuals	ctype<char> virtual functions
22.2.1.4	lib.locale.ctype.byname.special	Class ctype_byname<char>
22.2.1.5	lib.locale.codecvt	Template class codecvt
22.2.1.5.1	lib.locale.codecvt.members	codecvt members

22.2.1.5.2	lib.locale.codecvt.virtuals	codecvt virtual functions
22.2.1.6	lib.locale.codecvt.byname	Template class codecvt_byname
22.2.2	lib.category.numeric	The numeric category
22.2.2.1	lib.locale.num.get	Template class num_get
22.2.2.1.1	lib.facet.num.get.members	num_get members
22.2.2.1.2	lib.facet.num.get.virtuals	num_get virtual functions
22.2.2.2	lib.locale.num.put	Template class num_put
22.2.2.2.1	lib.facet.num.put.members	num_put members
22.2.2.2.2	lib.facet.num.put.virtuals	num_put virtual functions
22.2.3	lib.facet.numpunct	The numeric punctuation facet
22.2.3.1	lib.locale.numpunct	Template class numpunct
22.2.3.1.1	lib.facet.numpunct.members	numpunct members
22.2.3.1.2	lib.facet.numpunct.virtuals	numpunct virtual functions
22.2.3.2	lib.locale.numpunct.byname	Template class numpunct_byname
22.2.4	lib.category.collate	The collate category
22.2.4.1	lib.locale.collate	Template class collate
22.2.4.1.1	lib.locale.collate.members	collate members
22.2.4.1.2	lib.locale.collate.virtuals	collate virtual functions
22.2.4.2	lib.locale.collate.byname	Template class collate_byname
22.2.5	lib.category.time	The time category
22.2.5.1	lib.locale.time.get	Template class time_get
22.2.5.1.1	lib.locale.time.get.members	time_get members
22.2.5.1.2	lib.locale.time.get.virtuals	time_get virtual functions
22.2.5.2	lib.locale.time.get.byname	Template class time_get_byname
22.2.5.3	lib.locale.time.put	Template class time_put
22.2.5.3.1	lib.locale.time.put.members	time_put members
22.2.5.3.2	lib.locale.time.put.virtuals	time_put virtual functions
22.2.5.4	lib.locale.time.put.byname	Template class time_put_byname
22.2.6	lib.category.monetary	The monetary category
22.2.6.1	lib.locale.money.get	Template class money_get
22.2.6.1.1	lib.locale.money.get.members	money_get members
22.2.6.1.2	lib.locale.money.get.virtuals	money_get virtual functions
22.2.6.2	lib.locale.money.put	Template class money_put
22.2.6.2.1	lib.locale.money.put.members	money_put members
22.2.6.2.2	lib.locale.money.put.virtuals	money_put virtual functions
22.2.6.3	lib.locale.money.punct	Template class money_punct
22.2.6.3.1	lib.locale.money.punct.members	money_punct members
22.2.6.3.2	lib.locale.money.punct.virtuals	money_punct virtual functions
22.2.6.4	lib.locale.money.punct.byname	Template class money_punct_byname
22.2.7	lib.category.messages	The message retrieval category
22.2.7.1	lib.locale.messages	Template class messages
22.2.7.1.1	lib.locale.messages.members	messages members
22.2.7.1.2	lib.locale.messages.virtuals	messages virtual functions
22.2.7.2	lib.locale.messages.byname	Template class messages_byname
22.2.8	lib.facets.examples	Program-defined facets
22.3	lib.c.locales	C Library Locales
23	lib.containers	Containers library
23.1	lib.container.requirements	Container requirements
23.1.1	lib.sequence.reqmts	Sequences
23.1.2	lib.associative.reqmts	Associative containers

23.2	lib.sequences	Sequences
23.2.1	lib.template.bitset	Template class <code>bitset</code>
23.2.1.1	lib.bitset.cons	<code>bitset</code> constructors
23.2.1.2	lib.bitset.members	<code>bitset</code> members
23.2.1.3	lib.bitset.operators	<code>bitset</code> operators
23.2.2	lib.deque	Template class <code>deque</code>
23.2.2.1	lib.deque.types	<code>deque</code> types
23.2.2.2	lib.deque.cons	<code>deque</code> constructors, copy, and assignment
23.2.2.3	lib.deque.iterators	<code>deque</code> iterator support
23.2.2.4	lib.deque.capacity	<code>deque</code> capacity
23.2.2.5	lib.deque.access	<code>deque</code> element access
23.2.2.6	lib.deque.modifiers	<code>deque</code> modifiers
23.2.3	lib.list	Template class <code>list</code>
23.2.3.1	lib.list.types	<code>list</code> types
23.2.3.2	lib.list.cons	<code>list</code> constructors, copy, and assignment
23.2.3.3	lib.list.iterators	<code>list</code> iterator support
23.2.3.4	lib.list.capacity	<code>list</code> capacity
23.2.3.5	lib.list.access	<code>list</code> element access
23.2.3.6	lib.list.modifiers	<code>list</code> modifiers
23.2.3.7	lib.list.ops	<code>list</code> operations
23.2.4	lib.container.adapters	Container adapters
23.2.4.1	lib.queue	Template class <code>queue</code>
23.2.4.2	lib.priority.queue	Template class <code>priority_queue</code>
23.2.4.2.1	lib.priqueue.cons	<code>priority_queue</code> constructors
23.2.4.2.2	lib.priqueue.members	<code>priority_queue</code> members
23.2.4.3	lib.stack	Template class <code>stack</code>
23.2.5	lib.vector	Template class <code>vector</code>
23.2.5.1	lib.vector.types	<code>vector</code> types
23.2.5.2	lib.vector.cons	<code>vector</code> constructors, copy, and assignment
23.2.5.3	lib.vector.iterators	<code>vector</code> iterator support
23.2.5.4	lib.vector.capacity	<code>vector</code> capacity
23.2.5.5	lib.vector.access	<code>vector</code> element access
23.2.5.6	lib.vector.modifiers	<code>vector</code> modifiers
23.2.6	lib.vector.bool	Class <code>vector<bool></code>
23.3	lib.associative	Associative containers
23.3.1	lib.map	Template class <code>map</code>
23.3.1.1	lib.map.types	<code>map</code> types
23.3.1.2	lib.map.cons	<code>map</code> constructors, copy, and assignment
23.3.1.3	lib.map.iterators	<code>map</code> iterator support
23.3.1.4	lib.map.capacity	<code>map</code> capacity
23.3.1.5	lib.map.access	<code>map</code> element access
23.3.1.6	lib.map.modifiers	<code>map</code> modifiers
23.3.1.7	lib.map.observers	<code>map</code> observers
23.3.1.8	lib.map.ops	<code>map</code> operations
23.3.2	lib.multimap	Template class <code>multimap</code>
23.3.3	lib.set	Template class <code>set</code>
23.3.3.1	lib.set.types	<code>set</code> types
23.3.3.2	lib.set.cons	<code>set</code> constructors, copy, and assignment
23.3.3.3	lib.set.iterators	<code>set</code> iterator support
23.3.3.4	lib.set.capacity	<code>set</code> capacity
23.3.3.5	lib.set.modifiers	<code>set</code> modifiers
23.3.3.6	lib.set.observers	<code>set</code> observers
23.3.3.7	lib.set.ops	<code>set</code> operations
23.3.4	lib.multiset	Template class <code>multiset</code>
24	lib.iterators	Iterators library

24.1	lib.iterator.requirements	Iterator requirements	
24.1.1	lib.input.iterators	Input iterators	
24.1.2	lib.output.iterators	Output iterators	
24.1.3	lib.forward.iterators	Forward iterators	
24.1.4	lib.bidirectional.iterators	Bidirectional iterators	
24.1.5	lib.random.access.iterators	Random access iterators	
24.1.6	lib.iterator.tags	Iterator tags	
24.2	lib.iterator.primitives	Iterator primitives	
24.2.1	lib.std.iterator.tags	Standard iterator tags	
24.2.2	lib.basic.iterators	Basic iterators	
24.2.3	lib.iterator.category	iterator_category	
24.2.4	lib.value.type	value_type	
24.2.5	lib.distance.type	distance_type	
24.2.6	lib.iterator.operations	Iterator operations	
24.3	lib.predef.iterators	Predefined iterators	
24.3.1	lib.reverse.iterators	Reverse iterators	
24.3.1.1	lib.reverse.bidir.iter	Template	class
		reverse_bidirectional_iterator	
24.3.1.2	lib.reverse.bidir.iter.ops	reverse_bidirectional_iterator	
		operations	
24.3.1.2.1	lib.reverse.bidir.iter.cons	reverse_bidirectional_iterator	
		constructor	
24.3.1.2.2	lib.reverse.bidir.iter.conv	Conversion	
24.3.1.2.3	lib.reverse.bidir.iter.op.star	operator*	
24.3.1.2.4	lib.reverse.bidir.iter.opref	operator->	
24.3.1.2.5	lib.reverse.bidir.iter.op++	operator++	
24.3.1.2.6	lib.reverse.bidir.iter.op--	operator--	
24.3.1.2.7	lib.reverse.bidir.iter.op==	operator==	
24.3.1.3	lib.reverse.iterator	Template class reverse_iterator	
24.3.1.4	lib.reverse.iter.ops	reverse_iterator operations	
24.3.1.4.1	lib.reverse.iter.cons	reverse_iterator constructor	
24.3.1.4.2	lib.reverse.iter.conv	Conversion	
24.3.1.4.3	lib.reverse.iter.op.star	operator*	
24.3.1.4.4	lib.reverse.iter.opref	operator->	
24.3.1.4.5	lib.reverse.iter.op++	operator++	
24.3.1.4.6	lib.reverse.iter.op--	operator--	
24.3.1.4.7	lib.reverse.iter.op+	operator+	
24.3.1.4.8	lib.reverse.iter.op+=	operator+=	
24.3.1.4.9	lib.reverse.iter.op-	operator-	
24.3.1.4.10	lib.reverse.iter.op-=	operator-=	
24.3.1.4.11	lib.reverse.iter.opindex	operator[]	
24.3.1.4.12	lib.reverse.iter.op==	operator==	
24.3.1.4.13	lib.reverse.iter.op<	operator<	
24.3.1.4.14	lib.reverse.iter.opdiff	operator-	
24.3.1.4.15	lib.reverse.iter.opsum	operator==	
24.3.2	lib.insert.iterators	Insert iterators	
24.3.2.1	lib.back.insert.iterator	Template class back_insert_iterator	
24.3.2.2	lib.back.insert.iter.ops	back_insert_iterator operations	
24.3.2.2.1	lib.back.insert.iter.cons	back_insert_iterator constructor	
24.3.2.2.2	lib.back.insert.iter.op=	back_insert_iterator::operator=	
24.3.2.2.3	lib.back.insert.iter.op*	back_insert_iterator::operator*	
24.3.2.2.4	lib.back.insert.iter.op++	back_insert_iterator::operator++	
24.3.2.2.5	lib.back.inserter	back_inserter	
24.3.2.3	lib.front.insert.iterator	Template class front_insert_iterator	
24.3.2.4	lib.front.insert.iter.ops	front_insert_iterator operations	

24.3.2.4.1	lib.front.insert.iter.cons	front_insert_iterator constructor
24.3.2.4.2	lib.front.insert.iter.op=	front_insert_iterator::operator=
24.3.2.4.3	lib.front.insert.iter.op*	front_insert_iterator::operator*
24.3.2.4.4	lib.front.insert.iter.op++	front_insert_iterator::operator++
24.3.2.4.5	lib.front.inserter	front_inserter
24.3.2.5	lib.insert.iterator	Template class insert_iterator
24.3.2.6	lib.insert.iter.ops	insert_iterator operations
24.3.2.6.1	lib.insert.iter.cons	insert_iterator constructor
24.3.2.6.2	lib.insert.iter.op=	insert_iterator::operator=
24.3.2.6.3	lib.insert.iter.op*	insert_iterator::operator*
24.3.2.6.4	lib.insert.iter.op++	insert_iterator::operator++
24.3.2.6.5	lib.inserter	inserter
24.4	lib.stream.iterators	Stream iterators
24.4.1	lib.istream.iterator	Template class istream_iterator
24.4.2	lib ostream.iterator	Template class ostream_iterator
24.4.3	lib.istreambuf.iterator	Template class istreambuf_iterator
24.4.3.1	lib.istreambuf.iterator::proxy	Template class
24.4.3.2	lib.istreambuf.iterator.cons	istreambuf_iterator::proxy
24.4.3.3	lib.istreambuf.iterator::op*	istreambuf_iterator constructors
24.4.3.4	lib.istreambuf.iterator::op++	istreambuf_iterator::operator*
24.4.3.5	lib.istreambuf.iterator::equal	istreambuf_iterator::operator++
24.4.3.6	lib.iterator.category.i	istreambuf_iterator::equal
24.4.3.7	lib.istreambuf.iterator::op==	iterator_category
24.4.3.8	lib.istreambuf.iterator::op!=	operator==
24.4.4	lib ostreambuf.iterator	operator!=
24.4.4.1	lib ostreambuf.iter.cons	Template class ostreambuf_iterator
24.4.4.2	lib ostreambuf.iter.ops	ostreambuf_iterator constructors
24.4.4.3	lib ostreambuf.iterator.nonmembers	ostreambuf_iterator operations
		ostreambuf_iterator non-member
		operations
25	lib.algorithms	Algorithms library
25.1	lib.alg.nonmodifying	Non-modifying sequence operations
25.1.1	lib.alg.foreach	For each
25.1.2	lib.alg.find	Find
25.1.3	lib.alg.find.end	Find End
25.1.4	lib.alg.find.first.of	Find First
25.1.5	lib.alg.adjacent.find	Adjacent find
25.1.6	lib.alg.count	Count
25.1.7	lib.mismatch	Mismatch
25.1.8	lib.alg.equal	Equal
25.1.9	lib.alg.search	Search
25.2	lib.alg.modifying.operations	Mutating sequence operations
25.2.1	lib.alg.copy	Copy
25.2.2	lib.alg.swap	Swap
25.2.3	lib.alg.transform	Transform
25.2.4	lib.alg.replace	Replace
25.2.5	lib.alg.fill	Fill
25.2.6	lib.alg.generate	Generate
25.2.7	lib.alg.remove	Remove
25.2.8	lib.alg.unique	Unique
25.2.9	lib.alg.reverse	Reverse
25.2.10	lib.alg.rotate	Rotate
25.2.11	lib.alg.random.shuffle	Random shuffle
25.2.12	lib.alg.partitions	Partitions

25.3	lib.alg.sorting	Sorting and related operations
25.3.1	lib.alg.sort	Sorting
25.3.1.1	lib.sort	sort
25.3.1.2	lib.stable.sort	stable_sort
25.3.1.3	lib.partial.sort	partial_sort
25.3.1.4	lib.partial.sort.copy	partial_sort_copy
25.3.2	lib.alg.nth.element	Nth element
25.3.3	lib.alg.binary.search	Binary search
25.3.3.1	lib.lower.bound	lower_bound
25.3.3.2	lib.upper.bound	upper_bound
25.3.3.3	lib.equal.range	equal_range
25.3.3.4	lib.binary.search	binary_search
25.3.4	lib.alg.merge	Merge
25.3.5	lib.alg.set.operations	Set operations on sorted structures
25.3.5.1	lib.includes	includes
25.3.5.2	lib.set.union	set_union
25.3.5.3	lib.set.intersection	set_intersection
25.3.5.4	lib.set.difference	set_difference
25.3.5.5	lib.set.symmetric.difference	set_symmetric_difference
25.3.6	lib.alg.heap.operations	Heap operations
25.3.6.1	lib.push.heap	push_heap
25.3.6.2	lib.pop.heap	pop_heap
25.3.6.3	lib.make.heap	make_heap
25.3.6.4	lib.sort.heap	sort_heap
25.3.7	lib.alg.min.max	Minimum and maximum
25.3.8	lib.alg.lex.comparison	Lexicographical comparison
25.3.9	lib.alg.permutation.generators	Permutation generators
25.4	lib.alg.c.library	C library algorithms
26	lib.numerics	Numerics library
26.1	lib.numeric.requirements	Numeric type requirements
26.2	lib.complex.numbers	Complex numbers
26.2.1	lib.complex	Template class <code>complex</code>
26.2.2	lib.complex.special	<code>complex</code> specializations
26.2.3	lib.complex.members	<code>complex</code> member functions
26.2.4	lib.complex.member.ops	<code>complex</code> member operators
26.2.5	lib.complex.ops	<code>complex</code> non-member operations
26.2.6	lib.complex.value.ops	<code>complex</code> value operations
26.2.7	lib.complex.transcendentals	<code>complex</code> transcendentals
26.3	lib.numarray	Numeric arrays
26.3.1	lib.template.valarray	Template class <code>valarray</code>
26.3.1.1	lib.valarray.cons	<code>valarray</code> constructors
26.3.1.2	lib.valarray.assign	<code>valarray</code> assignment
26.3.1.3	lib.valarray.access	<code>valarray</code> element access
26.3.1.4	lib.valarray.sub	<code>valarray</code> subset operations
26.3.1.5	lib.valarray.unary	<code>valarray</code> unary operators
26.3.1.6	lib.valarray.cassign	<code>valarray</code> computed assignment
26.3.1.7	lib.valarray.members	<code>valarray</code> member functions
26.3.2	lib.valarray.nonmembers	<code>valarray</code> non-member operations
26.3.2.1	lib.valarray.binary	<code>valarray</code> binary operators
26.3.2.2	lib.valarray.comparison	<code>valarray</code> comparison operators
26.3.2.3	lib.valarray.min.max	<code>valarray</code> min and max functions
26.3.2.4	lib.valarray.transcend	<code>valarray</code> transcendentals
26.3.3	lib.class.slice	Class <code>slice</code>
26.3.3.1	lib.cons.slice	<code>slice</code> constructors

26.3.3.2	lib.slice.access	slice access functions
26.3.4	lib.template.slice.array	Template class slice_array
26.3.4.1	lib.cons.slice.arr	slice_array constructors
26.3.4.2	lib.slice.arr.assign	slice_array assignment
26.3.4.3	lib.slice.arr.comp.assign	slice_array computed assignment
26.3.4.4	lib.slice.arr.fill	slice_array fill function
26.3.5	lib.class.gslic	The gslic class
26.3.5.1	lib.gslic.cons	gslic constructors
26.3.5.2	lib.gslic.access	gslic access functions
26.3.6	lib.template.gslic.array	Template class gslic_array
26.3.6.1	lib.gslic.array.cons	gslic_array constructors
26.3.6.2	lib.gslic.array.assign	gslic_array assignment
26.3.6.3	lib.gslic.array.comp.assign	gslic_array computed assignment
26.3.6.4	lib.gslic.array.fill	gslic_array fill function
26.3.7	lib.template.mask.array	Template class mask_array
26.3.7.1	lib.mask.array.cons	mask_array constructors
26.3.7.2	lib.mask.array.assign	mask_array assignment
26.3.7.3	lib.mask.array.comp.assign	mask_array computed assignment
26.3.7.4	lib.mask.array.fill	mask_array fill function
26.3.8	lib.template.indirect.array	Template class indirect_array
26.3.8.1	lib.indirect.array.cons	indirect_array constructors
26.3.8.2	lib.indirect.array.assign	indirect_array assignment
26.3.8.3	lib.indirect.array.comp.assign	indirect_array computed assignment
26.3.8.4	lib.indirect.array.fill	indirect_array fill function
26.4	lib.numeric.ops	Generalized numeric operations
26.4.1	lib.accumulate	Accumulate
26.4.2	lib.inner.product	Inner product
26.4.3	lib.partial.sum	Partial sum
26.4.4	lib.adjacent.difference	Adjacent difference
26.5	lib.c.math	C Library
27	lib.input.output	Input/output library
27.1	lib.iostreams.requirements	Iostreams requirements
27.1.1	lib.iostreams.definitions	Definitions
27.1.2	lib.iostreams.type.reqmts	Type requirements
27.1.2.1	lib.iostreams.char.t	Type <i>CHAR_T</i>
27.1.2.2	lib.iostreams.int.t	Type <i>INT_T</i>
27.1.2.3	lib.iostreams.off.t	Type <i>OFF_T</i>
27.1.2.4	lib.iostreams.pos.t	Type <i>POS_T</i>
27.1.2.5	lib.iostreams.sz.t	Type <i>SZ_T</i>
27.1.2.6	lib.iostreams.state.t	Type <i>STATE_T</i>
27.2	lib.iostream.forward	Forward declarations
27.3	lib.iostream.objects	Standard iostream objects
27.3.1	lib.narrow.stream.objects	Narrow stream objects
27.3.2	lib.wide.stream.objects	Wide stream objects
27.4	lib.iostreams.base	Iostreams base classes
27.4.1	lib.stream.types	Types
27.4.2	lib.ios.traits	Template struct ios_traits
27.4.2.1	lib.ios.traits.values	ios_traits value functions
27.4.2.2	lib.ios.traits.tests	ios_traits test functions
27.4.2.3	lib.ios.traits.convert	ios_traits conversion functions
27.4.3	lib.ios.base	Class ios_base
27.4.3.1	lib.ios.types	Types
27.4.3.1.1	lib.ios::failure	Class ios_base::failure
27.4.3.1.2	lib.ios::fmtflags	Type ios_base::fmtflags

27.4.3.1.3	lib.ios::iostate	Type ios_base::iostate
27.4.3.1.4	lib.ios::openmode	Type ios_base::openmode
27.4.3.1.5	lib.ios::seekdir	Type ios_base::seekdir
27.4.3.1.6	lib.ios::Init	Class ios_base::Init
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