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X3, INFORMATION PROCESSING SYSTEMS

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Reply to: Andrew Koenig
AT&T Bell Laboratories
PO Box 636
600 Mountain Avenue
Room 2C−306
Murray Hill, NJ 07974 USA
ark@research.att.com

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

This document provides a cross-refrerence 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.ppnumber	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 `if` statement
6.4.2	stmt.switch	The `switch` statement
6.5	stmt.iter	Iteration statements
6.5.1	stmt.while	The `while` statement
6.5.2	stmt.do	The `do` statement
6.5.3	stmt.for	The `for` statement
6.6	stmt.jump	Jump statements
6.6.1	stmt.break	The `break` statement
6.6.2	stmt.cont	The `continue` statement
6.6.3	stmt.return	The `return` statement
6.6.4	stmt.goto	The `goto` 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 `typedef` specifier
7.1.4	dcl.friend	The `friend` specifier
7.1.5	dcl.type	Type specifiers
7.1.5.1	dcl.type.cv	The *cv-qualifiers*
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 `using` declaration
7.3.4	namespace.udir	Using directive
7.4	dcl.asm	The `asm` 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 `this` 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 `terminate()` function
15.5.2	except.unexpected	The `unexpected()` function

15.5.3	except.uncaught	The `uncaught_exception()` 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 # operator
16.3.3	cpp.concat	The ## 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 `numeric_limits`
18.2.1.2	lib.numeric.limits.members	`numeric_limits` members
18.2.1.3	lib.round.style	Type `float_round_style`
18.2.1.4	lib.numeric.special	`numeric_limits` 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 `bad_alloc`
18.4.2.2	lib.new.handler	Type `new_handler`
18.4.2.3	lib.set.new.handler	`set_new_handler`
18.5	lib.support.rtti	Type identification
18.5.1	lib.type.info	Class `type_info`
18.5.2	lib.bad.cast	Class `bad_cast`
18.5.3	lib.bad.typeid	Class `bad_typeid`
18.6	lib.support.exception	Exception handling
18.6.1	lib.exception	Class `exception`
18.6.2	lib.exception.unexpected	Violating *`exception-specifications`*
18.6.2.1	lib.bad.exception	Class `bad_exception`
18.6.2.2	lib.unexpected.handler	Type `unexpected_handler`
18.6.2.3	lib.set.unexpected	`set_unexpected`
18.6.2.4	lib.unexpected	`unexpected`
18.6.3	lib.exception.terminate	Abnormal termination
18.6.3.1	lib.terminate.handler	Type `terminate_handler`
18.6.3.2	lib.set.terminate	`set_terminate`
18.6.3.3	lib.terminate	`terminate`
18.6.4	lib.uncaught	`uncaught_exception`
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 `logic_error`
19.1.2	lib.domain.error	Class `domain_error`
19.1.3	lib.invalid.argument	Class `invalid_argument`
19.1.4	lib.length.error	Class `length_error`
19.1.5	lib.out.of.range	Class `out_of_range`
19.1.6	lib.runtime.error	Class `runtime_error`
19.1.7	lib.range.error	Class `range_error`
19.1.8	lib.overflow.error	Class `overflow_error`
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.lessthancomparable	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
20.4.3	lib.temporary.buffer	Temporary buffers
20.4.4	lib.specialized.algorithms	Specialized algorithms
20.4.4.1	lib.uninitialized.copy	`uninitialized_copy`
20.4.4.2	lib.uninitialized.fill	`uninitialized_fill`
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.moneypunct	Template class `moneypunct`
22.2.6.3.1	lib.locale.moneypunct.members	`moneypunct` members
22.2.6.3.2	lib.locale.moneypunct.virtuals	`moneypunct` virtual functions
22.2.6.4	lib.locale.moneypunct.byname	Template class `moneypunct_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 `bitset`
23.2.1.1	lib.bitset.cons	`bitset` constructors
23.2.1.2	lib.bitset.members	`bitset` members
23.2.1.3	lib.bitset.operators	`bitset` operators
23.2.2	lib.deque	Template class `deque`
23.2.2.1	lib.deque.types	`deque` types
23.2.2.2	lib.deque.cons	`deque` constructors, copy, and assignment
23.2.2.3	lib.deque.iterators	`deque` iterator support
23.2.2.4	lib.deque.capacity	`deque` capacity
23.2.2.5	lib.deque.access	`deque` element access
23.2.2.6	lib.deque.modifiers	`deque` modifiers
23.2.3	lib.list	Template class `list`
23.2.3.1	lib.list.types	`list` types
23.2.3.2	lib.list.cons	`list` constructors, copy, and assignment
23.2.3.3	lib.list.iterators	`list` iterator support
23.2.3.4	lib.list.capacity	`list` capacity
23.2.3.5	lib.list.access	`list` element access
23.2.3.6	lib.list.modifiers	`list` modifiers
23.2.3.7	lib.list.ops	`list` operations
23.2.4	lib.container.adapters	Container adapters
23.2.4.1	lib.queue	Template class `queue`
23.2.4.2	lib.priority.queue	Template class `priority_queue`
23.2.4.2.1	lib.priqueue.cons	`priority_queue` constructors
23.2.4.2.2	lib.priqueue.members	`priority_queue` members
23.2.4.3	lib.stack	Template class `stack`
23.2.5	lib.vector	Template class `vector`
23.2.5.1	lib.vector.types	`vector` types
23.2.5.2	lib.vector.cons	`vector` constructors, copy, and assignment
23.2.5.3	lib.vector.iterators	`vector` iterator support
23.2.5.4	lib.vector.capacity	`vector` capacity
23.2.5.5	lib.vector.access	`vector` element access
23.2.5.6	lib.vector.modifiers	`vector` modifiers
23.2.6	lib.vector.bool	Class `vector<bool>`
23.3	lib.associative	Associative containers
23.3.1	lib.map	Template class `map`
23.3.1.1	lib.map.types	`map` types
23.3.1.2	lib.map.cons	`map` constructors, copy, and assignment
23.3.1.3	lib.map.iterators	`map` iterator support
23.3.1.4	lib.map.capacity	`map` capacity
23.3.1.5	lib.map.access	`map` element access
23.3.1.6	lib.map.modifiers	`map` modifiers
23.3.1.7	lib.map.observers	`map` observers
23.3.1.8	lib.map.ops	`map` operations
23.3.2	lib.multimap	Template class `multimap`
23.3.3	lib.set	Template class `set`
23.3.3.1	lib.set.types	`set` types
23.3.3.2	lib.set.cons	`set` constructors, copy, and assignment
23.3.3.3	lib.set.iterators	`set` iterator support
23.3.3.4	lib.set.capacity	`set` capacity
23.3.3.5	lib.set.modifiers	`set` modifiers
23.3.3.6	lib.set.observers	`set` observers
23.3.3.7	lib.set.ops	`set` operations
23.3.4	lib.multiset	Template class `multiset`
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 `istreambuf_iterator::proxy`
24.4.3.2	lib.istreambuf.iterator.cons	`istreambuf_iterator` constructors
24.4.3.3	lib.istreambuf.iterator::op*	`istreambuf_iterator::operator*`
24.4.3.4	lib.istreambuf.iterator::op++	`istreambuf_iterator::operator++`
24.4.3.5	lib.istreambuf.iterator::equal	`istreambuf_iterator::equal`
24.4.3.6	lib.iterator.category.i	`iterator_category`
24.4.3.7	lib.istreambuf.iterator::op==	`operator==`
24.4.3.8	lib.istreambuf.iterator::op!=	`operator!=`
24.4.4	lib.ostreambuf.iterator	Template class `ostreambuf_iterator`
24.4.4.1	lib.ostreambuf.iter.cons	`ostreambuf_iterator` constructors
24.4.4.2	lib.ostreambuf.iter.ops	`ostreambuf_iterator` operations
24.4.4.3	lib.ostreambuf.iterator.nonmembers	`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 `complex`
26.2.2	lib.complex.special	`complex` specializations
26.2.3	lib.complex.members	`complex` member functions
26.2.4	lib.complex.member.ops	`complex` member operators
26.2.5	lib.complex.ops	`complex` non-member operations
26.2.6	lib.complex.value.ops	`complex` value operations
26.2.7	lib.complex.transcendentals	`complex` transcendentals
26.3	lib.numarray	Numeric arrays
26.3.1	lib.template.valarray	Template class `valarray`
26.3.1.1	lib.valarray.cons	`valarray` constructors
26.3.1.2	lib.valarray.assign	`valarray` assignment
26.3.1.3	lib.valarray.access	`valarray` element access
26.3.1.4	lib.valarray.sub	`valarray` subset operations
26.3.1.5	lib.valarray.unary	`valarray` unary operators
26.3.1.6	lib.valarray.cassign	`valarray` computed assignment
26.3.1.7	lib.valarray.members	`valarray` member functions
26.3.2	lib.valarray.nonmembers	`valarray` non-member operations
26.3.2.1	lib.valarray.binary	`valarray` binary operators
26.3.2.2	lib.valarray.comparison	`valarray` comparison operators
26.3.2.3	lib.valarray.min.max	`valarray` min and max functions
26.3.2.4	lib.valarray.transcend	`valarray` transcendentals
26.3.3	lib.class.slice	Class `slice`
26.3.3.1	lib.cons.slice	`slice` 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.gslice	The `gslice` class
26.3.5.1	lib.gslice.cons	`gslice constructors`
26.3.5.2	lib.gslice.access	`gslice` access functions
26.3.6	lib.template.gslice.array	Template class `gslice_array`
26.3.6.1	lib.gslice.array.cons	`gslice_array` constructors
26.3.6.2	lib.gslice.array.assign	`gslice_array` assignment
26.3.6.3	lib.gslice.array.comp.assign	`gslice_array computed assignment`
26.3.6.4	lib.gslice.array.fill	`gslice_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 *CHAR_T*
27.1.2.2	lib.iostreams.int.t	Type *INT_T*
27.1.2.3	lib.iostreams.off.t	Type *OFF_T*
27.1.2.4	lib.iostreams.pos.t	Type *POS_T*
27.1.2.5	lib.iostreams.sz.t	Type *SZ_T*
27.1.2.6	lib.iostreams.state.t	Type *STATE_T*
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`
27.4.3.2	lib.fmtflags.state	`ios_base fmtflags` state functions
27.4.3.3	lib.ios.base.locales	`ios_base locale` functions
27.4.3.4	lib.ios.base.storage	`ios_base` storage functions
27.4.3.5	lib.ios.base.cons	`ios_base` constructors
27.4.4	lib.ios	Template class `basic_ios`
27.4.4.1	lib.basic.ios.cons	`basic_ios` constructors
27.4.4.2	lib.basic.ios.members	Member functions
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27.4.5	lib.std.ios.manip	`ios_base` manipulators
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lib.reverse.iter.op--	24.3.1.4.6	`operator--`
lib.reverse.iter.op-=	24.3.1.4.10	`operator-=`
lib.reverse.iter.op.star	24.3.1.4.3	`operator*`
lib.reverse.iter.op<	24.3.1.4.13	`operator<`
lib.reverse.iter.op==	24.3.1.4.12	`operator==`
lib.reverse.iter.opdiff	24.3.1.4.14	`operator-`
lib.reverse.iter.opindex	24.3.1.4.11	`operator[]`

lib.reverse.iter.opref	24.3.1.4.4	`operator->`
lib.reverse.iter.ops	24.3.1.4	`reverse_iterator` operations
lib.reverse.iter.opsum	24.3.1.4.15	`operator==`
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lib.set.cons	23.3.3.2	`set` constructors, copy, and assignment
lib.set.difference	25.3.5.4	`set_difference`
lib.set.intersection	25.3.5.3	`set_intersection`
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