# Linux Standard Base C++ Specification for PPC32 4.0

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## **Foreword**

This is version 4.0 of the Linux Standard Base C++ Specification for PPC32. This specification is part of a family of specifications under the general title "Linux Standard Base". Developers of applications or implementations interested in using the LSB trademark should see the Linux Foundation Certification Policy for details.

#### Introduction

The LSB defines a binary interface for application programs that are compiled and packaged for LSB-conforming implementations on many different hardware architectures. Since a binary specification shall include information specific to the computer processor architecture for which it is intended, it is not possible for a single document to specify the interface for all possible LSB-conforming implementations. Therefore, the LSB is a family of specifications, rather than a single one.

This document should be used in conjunction with the documents it references. This document enumerates the system components it includes, but descriptions of those components may be included entirely or partly in this document, partly in other documents, or entirely in other reference documents. For example, the section that describes system service routines includes a list of the system routines supported in this interface, formal declarations of the data structures they use that are visible to applications, and a pointer to the underlying referenced specification for information about the syntax and semantics of each call. Only those routines not described in standards referenced by this document, or extensions to those standards, are described in the detail. Information referenced in this way is as much a part of this document as is the information explicitly included here.

The specification carries a version number of either the form x.y or x.y.z. This version number carries the following meaning:

- The first number (x) is the major version number. All versions with the same major version number should share binary compatibility. Any addition or deletion of a new library results in a new version number. Interfaces marked as deprecated may be removed from the specification at a major version change.
- The second number (y) is the minor version number. Individual interfaces
  may be added if all certified implementations already had that (previously
  undocumented) interface. Interfaces may be marked as deprecated at a minor version change. Other minor changes may be permitted at the discretion
  of the LSB workgroup.
- The third number (z), if present, is the editorial level. Only editorial changes should be included in such versions.

Since this specification is a descriptive Application Binary Interface, and not a source level API specification, it is not possible to make a guarantee of 100% backward compatibility between major releases. However, it is the intent that those parts of the binary interface that are visible in the source level API will remain backward compatible from version to version, except where a feature marked as "Deprecated" in one release may be removed from a future release.

Implementors are strongly encouraged to make use of symbol versioning to permit simultaneous support of applications conforming to different releases of this specification.

## I Introductory Elements

## 1 Scope

#### 1.1 General

The Linux Standard Base (LSB) defines a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

These specifications are composed of two basic parts: A common specification ("LSB-generic" or "generic LSB"), ISO/IEC 23360 Part 1, describing those parts of the interface that remain constant across all implementations of the LSB, and an architecture-specific part ("LSB-arch" or "archLSB") describing the parts of the interface that vary by processor architecture. Together, the LSB-generic and the relevant architecture-specific part of ISO/IEC 23360 for a single hardware architecture provide a complete interface specification for compiled application programs on systems that share a common hardware architecture.

ISO/IEC 23360 Part 1, the LSB-generic document, should be used in conjunction with an architecture-specific part. Whenever a section of the LSB-generic specification is supplemented by architecture-specific information, the LSB-generic document includes a reference to the architecture part. Architecture-specific parts of ISO/IEC 23360 may also contain additional information that is not referenced in the LSB-generic document.

The LSB contains both a set of Application Program Interfaces (APIs) and Application Binary Interfaces (ABIs). APIs may appear in the source code of portable applications, while the compiled binary of that application may use the larger set of ABIs. A conforming implementation provides all of the ABIs listed here. The compilation system may replace (e.g. by macro definition) certain APIs with calls to one or more of the underlying binary interfaces, and may insert calls to binary interfaces as needed.

The LSB is primarily a binary interface definition. Not all of the source level APIs available to applications may be contained in this specification.

## 1.2 Module Specific Scope

This is the C++ module of the Linux Standards Base (LSB). This module supplements the core interfaces by providing system interfaces, libraries, and a runtime environment for applications built using the C++ programming language. These interfaces provide low-level support for the core constructs of the language, and implement the standard base C++ libraries.

Interfaces described in this module are presented in terms of C++; the binary interfaces will use encoded or mangled versions of the names.

## 2 Normative References

The specifications listed below are referenced in whole or in part by this module of the Linux Standard Base. In this specification, where only a particular section of one of these references is identified, then the normative reference is to that section alone, and the rest of the referenced document is informative.

**Table 2-1 Normative References** 

Name	Title	URL
ISO/IEC 23360 Part 1	ISO/IEC 23360:2005 Linux Standard Base - Part 1 Generic Specification	http://www.linuxbase. org/spec/
ISO C (1999)	ISO/IEC 9899: 1999, Programming LanguagesC	
ISO POSIX (2003)	ISO/IEC 9945-1:2003 Information technology Portable Operating System Interface (POSIX) Part 1: Base Definitions	http://www.unix.org/ version3/
	ISO/IEC 9945-2:2003 Information technology Portable Operating System Interface (POSIX) Part 2: System Interfaces	
	ISO/IEC 9945-3:2003 Information technology Portable Operating System Interface (POSIX) Part 3: Shell and Utilities	
	ISO/IEC 9945-4:2003 Information technology Portable Operating System Interface (POSIX) Part 4: Ratio- nale	
	Including Technical Cor. 1: 2004	
ISO/IEC 14882: 2003 C++ Language	ISO/IEC 14882: 2003 Programming languagesC++	
Itanium™ C++ ABI	Itanium™ C++ ABI (Revision 1.83)	http://refspecs.linux- foundation.org/cxxabi- 1.83.html

## 3 Requirements

#### 3.1 Relevant Libraries

The libraries listed in <u>Table 3-1</u> shall be available on a Linux Standard Base system, with the specified runtime names.

**Table 3-1 Standard Library Names** 

Library	Runtime Name
libstdcxx	libstdc++.so.6

These libraries will be in an implementation-defined directory which the dynamic linker shall search by default.

### 3.2 LSB Implementation Conformance

An implementation shall satisfy the following requirements:

- The implementation shall implement fully the architecture described in the hardware manual for the target processor architecture.
- The implementation shall be capable of executing compiled applications having the format and using the system interfaces described in this document.
- The implementation shall provide libraries containing the interfaces specified by this document, and shall provide a dynamic linking mechanism that allows these interfaces to be attached to applications at runtime. All the interfaces shall behave as specified in this document.
- The map of virtual memory provided by the implementation shall conform to the requirements of this document.
- The implementation's low-level behavior with respect to function call linkage, system traps, signals, and other such activities shall conform to the formats described in this document.
- The implementation shall provide all of the mandatory interfaces in their entirety.
- The implementation may provide one or more of the optional interfaces. Each optional interface that is provided shall be provided in its entirety. The product documentation shall state which optional interfaces are provided.
- The implementation shall provide all files and utilities specified as part of this
  document in the format defined here and in other referenced documents. All
  commands and utilities shall behave as required by this document. The implementation shall also provide all mandatory components of an application's
  runtime environment that are included or referenced in this document.
- The implementation, when provided with standard data formats and values at a named interface, shall provide the behavior defined for those values and data formats at that interface. However, a conforming implementation may consist of components which are separately packaged and/or sold. For example, a vendor of a conforming implementation might sell the hardware, operating system, and windowing system as separately packaged items.
- The implementation may provide additional interfaces with different names. It may also provide additional behavior corresponding to data values outside

the standard ranges, for standard named interfaces.

### 3.3 LSB Application Conformance

An application shall satisfy the following requirements:

- Its executable files are either shell scripts or object files in the format defined for the Object File Format system interface.
- Its object files participate in dynamic linking as defined in the Program Loading and Linking System interface.
- It employs only the instructions, traps, and other low-level facilities defined in the Low-Level System interface as being for use by applications.
- If it requires any optional interface defined in this document in order to be installed or to execute successfully, the requirement for that optional interface is stated in the application's documentation.
- It does not use any interface or data format that is not required to be provided by a conforming implementation, unless:
  - If such an interface or data format is supplied by another application through direct invocation of that application during execution, that application is in turn an LSB conforming application.
  - The use of that interface or data format, as well as its source, is identified in the documentation of the application.
- It shall not use any values for a named interface that are reserved for vendor extensions.

A strictly conforming application does not require or use any interface, facility, or implementation-defined extension that is not defined in this document in order to be installed or to execute successfully.

### 4 Definitions

For the purposes of this document, the following definitions, as specified in the *ISO/IEC Directives, Part 2, 2001, 4th Edition,* apply:

can

be able to; there is a possibility of; it is possible to

cannot

be unable to; there is no possibility of; it is not possible to

may

is permitted; is allowed; is permissible

need not

it is not required that; no...is required

shall

is to; is required to; it is required that; has to; only...is permitted; it is necessary

shall not

is not allowed [permitted] [acceptable] [permissible]; is required to be not; is required that...be not; is not to be

should

it is recommended that; ought to

should not

it is not recommended that; ought not to

## **5 Terminology**

For the purposes of this document, the following terms apply:

#### archLSB

The architectural part of the LSB Specification which describes the specific parts of the interface that are platform specific. The archLSB is complementary to the gLSB.

#### Binary Standard

The total set of interfaces that are available to be used in the compiled binary code of a conforming application.

#### gLSB

The common part of the LSB Specification that describes those parts of the interface that remain constant across all hardware implementations of the LSB.

#### implementation-defined

Describes a value or behavior that is not defined by this document but is selected by an implementor. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence of the value or behavior. An application that relies on such a value or behavior cannot be assured to be portable across conforming implementations. The implementor shall document such a value or behavior so that it can be used correctly by an application.

#### Shell Script

A file that is read by an interpreter (e.g., awk). The first line of the shell script includes a reference to its interpreter binary.

#### Source Standard

The set of interfaces that are available to be used in the source code of a conforming application.

#### undefined

Describes the nature of a value or behavior not defined by this document which results from use of an invalid program construct or invalid data input. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence or validity of the value or behavior. An application that relies on any particular value or behavior cannot be assured to be portable across conforming implementations.

#### unspecified

Describes the nature of a value or behavior not specified by this document which results from use of a valid program construct or valid data input. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence or validity of the value or behavior. An application that relies on any particular value or behavior cannot be assured to be portable across conforming

implementations.

Other terms and definitions used in this document shall have the same meaning as defined in Chapter 3 of the Base Definitions volume of <u>ISO POSIX (2003)</u>.

#### **6 Documentation Conventions**

Throughout this document, the following typographic conventions are used:

function()

the name of a function

#### command

the name of a command or utility

CONSTANT

a constant value

parameter

a parameter

variable

a variable

Throughout this specification, several tables of interfaces are presented. Each entry in these tables has the following format:

name

the name of the interface

(symver)

An optional symbol version identifier, if required.

#### [refno]

A reference number indexing the table of referenced specifications that follows this table.

For example,

forkpty(GLIBC\_2.0) [SUSv3]

refers to the interface named forkpty() with symbol version GLIBC\_2.0 that is defined in the SUSv3 reference.

**Note:** For symbols with versions which differ between architectures, the symbol versions are defined in the architecture specific parts of ISO/IEC 23360 only.

## **II Base Libraries**

#### 7 Libraries

An LSB-conforming implementation shall support base libraries which provide interfaces for accessing the operating system, processor and other hardware in the system.

Only those interfaces that are unique to the PowerPC 32 platform are defined here. This section should be used in conjunction with the corresponding section in the Linux Standard Base Specification.

#### 7.1 Interfaces for libstdcxx

<u>Table 7-1</u> defines the library name and shared object name for the libstdcxx library

Table 7-1 libstdcxx Definition

Library:	libstdcxx
SONAME:	libstdc++.so.6

The behavior of the interfaces in this library is specified by the following specifications:

[CXXABI] <u>Itanium<sup>TM</sup> C++ ABI</u>

[ISOCXX] ISO/IEC 14882: 2003 C++ Language

[LSB] ISO/IEC 23360 Part 1

## 7.1.1 C++ Runtime Support

#### 7.1.1.1 Interfaces for C++ Runtime Support

An LSB conforming implementation shall provide the architecture specific methods for C++ Runtime Support specified in <u>Table 7-2</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-2 libstdcxx - C++ Runtime Support Function Interfaces

operator new[](unsigned int)(GLIBCXX_3.4) [ISOCXX]
operator new[](unsigned int, nothrow_t const&)(GLIBCXX_3.4) [ISOCXX]
operator new(unsigned int)(GLIBCXX_3.4) [ISOCXX]
operator new(unsigned int, nothrow_t const&)(GLIBCXX_3.4) [ISOCXX]

## 7.1.2 C++ type descriptors for built-in types

#### 7.1.2.1 Interfaces for C++ type descriptors for built-in types

No external methods are defined for libstdcxx - C++ type descriptors for built-in types in this part of the specification. See also the generic specification.

## 7.1.3 C++ \_Rb\_tree

#### 7.1.3.1 Interfaces for C++ \_Rb\_tree

No external methods are defined for libstdcxx - C++ \_Rb\_tree in this part of the specification. See also the generic specification.

## 7.1.4 Class type\_info

#### 7.1.4.1 Class data for type\_info

The virtual table for the std::type\_info class is described in the generic part of this specification.

The Run Time Type Information for the std::type\_info class is described by Table 7-3

Table 7-3 typeinfo for type\_info

Base Vtable	vtable forcxxabiv1::class_type_info
Name	typeinfo name for type_info

#### 7.1.4.2 Interfaces for Class type\_info

No external methods are defined for libstdcxx - Class std::type\_info in this part of the specification. See also the generic specification.

## 7.1.5 Class \_\_cxxabiv1::\_\_enum\_type\_info

#### 7.1.5.1 Class data for \_\_cxxabiv1::\_\_enum\_type\_info

The virtual table for the \_\_cxxabiv1::\_\_enum\_type\_info class is described in the generic part of this specification.

The Run Time Type Information for the \_\_cxxabiv1::\_\_enum\_type\_info class is described by <u>Table 7-4</u>

Table 7-4 typeinfo for cxxabiv1:: enum type info

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name forcxxabiv1::enum_type_info

#### 7.1.5.2 Interfaces for Class \_\_cxxabiv1::\_\_enum\_type\_info

No external methods are defined for libstdcxx - Class \_\_cxxabiv1::\_\_enum\_type\_info in this part of the specification. See also the generic specification.

## 7.1.6 Class \_\_cxxabiv1::\_\_array\_type\_info

#### 7.1.6.1 Class data for \_\_cxxabiv1::\_\_array\_type\_info

The virtual table for the \_\_cxxabiv1::\_array\_type\_info class is described in the generic part of this specification.

The Run Time Type Information for the \_\_cxxabiv1::\_array\_type\_info class is described by <u>Table 7-5</u>

Table 7-5 typeinfo for \_\_cxxabiv1::\_array\_type\_info

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for

cxxabiv1::array_type_info	
---------------------------	--

#### 7.1.6.2 Interfaces for Class \_\_cxxabiv1::\_\_array\_type\_info

No external methods are defined for libstdcxx - Class \_\_cxxabiv1::\_array\_type\_info in this part of the specification. See also the generic specification.

## 7.1.7 Class \_\_cxxabiv1::\_\_class\_type\_info

#### 7.1.7.1 Class data for \_\_cxxabiv1::\_\_class\_type\_info

The virtual table for the \_\_cxxabiv1::\_\_class\_type\_info class is described by Table 7-6

Table 7-6 Primary vtable for \_\_cxxabiv1::\_\_class\_type\_info

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo forcxxabiv1::class_type_info
vfunc[0]:	cxxabiv1::class_type_info::~class_type_info()
vfunc[1]:	cxxabiv1::class_type_info::~class_type_info()
vfunc[2]:	type_info::is_pointer_p() const
vfunc[3]:	type_info::is_function_p() const
vfunc[4]:	cxxabiv1::class_type_info::do_ catch(type_info const*, void**, unsigned int) const
vfunc[5]:	cxxabiv1::class_type_info::do_ upcast(cxxabiv1::class_type_info const*, void**) const
vfunc[6]:	cxxabiv1::class_type_info::do_ upcast(cxxabiv1::class_type_info const*, void const*, cxxabiv1::class_type_info::upc ast_result&) const
vfunc[7]:	cxxabiv1::class_type_info::do_ dyncast(int, cxxabiv1::class_type_info::sub _kind,cxxabiv1::class_type_info const*, void const*, cxxabiv1::class_type_info const*, void const*, cxxabiv1::class_type_info::dyn cast_result&) const
vfunc[8]:	cxxabiv1::class_type_info::do_ find_public_src(int, void const*, cxxabiv1::class_type_info const*, void const*) const

The Run Time Type Information for the \_\_cxxabiv1::\_\_class\_type\_info class is described by <u>Table 7-7</u>

Table 7-7 typeinfo for \_\_cxxabiv1::\_\_class\_type\_info

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for cxxabiv1::class_type_info

#### 7.1.7.2 Interfaces for Class \_\_cxxabiv1::\_\_class\_type\_info

An LSB conforming implementation shall provide the architecture specific methods for Class \_\_cxxabiv1::\_\_class\_type\_info specified in <u>Table 7-8</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-8 libstdcxx - Class \_\_cxxabiv1::\_\_class\_type\_info Function Interfaces

```
__cxxabiv1::__class_type_info::__do_dyncast(int,
__cxxabiv1::__class_type_info::__sub_kind, __cxxabiv1::__class_type_info
const*, void const*, __cxxabiv1::__class_type_info const*, void const*,
__cxxabiv1::__class_type_info::__dyncast_result&) const(CXXABI_1.3)
[CXXABI]

__cxxabiv1::__class_type_info::__do_find_public_src(int, void const*,
__cxxabiv1::__class_type_info const*, void const*) const(CXXABI_1.3)
[CXXABI]
```

## 7.1.8 Class \_\_cxxabiv1::\_pbase\_type\_info

#### 7.1.8.1 Class data for \_\_cxxabiv1::\_\_pbase\_type\_info

The virtual table for the \_\_cxxabiv1::\_\_pbase\_type\_info class is described in the generic part of this specification.

The Run Time Type Information for the \_\_cxxabiv1::\_\_pbase\_type\_info class is described by <u>Table 7-9</u>

Table 7-9 typeinfo for \_\_cxxabiv1::\_\_pbase\_type\_info

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name forcxxabiv1::pbase_type_info

#### 7.1.8.2 Interfaces for Class \_\_cxxabiv1::\_pbase\_type\_info

No external methods are defined for libstdcxx - Class \_\_cxxabiv1::\_pbase\_type\_info in this part of the specification. See also the generic specification.

## 7.1.9 Class \_\_cxxabiv1::\_\_pointer\_type\_info

#### 7.1.9.1 Class data for \_\_cxxabiv1::\_pointer\_type\_info

The virtual table for the \_\_cxxabiv1::\_pointer\_type\_info class is described in the generic part of this specification.

The Run Time Type Information for the \_\_cxxabiv1::\_\_pointer\_type\_info class is described by <u>Table 7-10</u>

Table 7-10 typeinfo for \_\_cxxabiv1::\_\_pointer\_type\_info

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name forcxxabiv1::pointer_type_info

#### 7.1.9.2 Interfaces for Class \_\_cxxabiv1::\_\_pointer\_type\_info

No external methods are defined for libstdcxx - Class \_\_cxxabiv1::\_pointer\_type\_info in this part of the specification. See also the generic specification.

## 7.1.10 Class \_\_cxxabiv1::\_\_function\_type\_info

#### 7.1.10.1 Class data for \_\_cxxabiv1::\_\_function\_type\_info

The virtual table for the \_\_cxxabiv1::\_\_function\_type\_info class is described in the generic part of this specification.

The Run Time Type Information for the \_\_cxxabiv1::\_\_function\_type\_info class is described by <u>Table 7-11</u>

Table 7-11 typeinfo for \_\_cxxabiv1::\_\_function\_type\_info

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name forcxxabiv1::function_type_info

#### 7.1.10.2 Interfaces for Class \_\_cxxabiv1::\_\_function\_type\_info

No external methods are defined for libstdcxx - Class \_cxxabiv1::\_function\_type\_info in this part of the specification. See also the generic specification.

## 7.1.11 Class \_\_cxxabiv1::\_\_si\_class\_type\_info

#### 7.1.11.1 Class data for \_\_cxxabiv1::\_\_si\_class\_type\_info

The virtual table for the  $\_cxxabiv1::\_si\_class\_type\_info$  class is described by  $\underline{Table\ 7-12}$ 

Table 7-12 Primary vtable for \_\_cxxabiv1::\_\_si\_class\_type\_info

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo forcxxabiv1::si_class_type_info
vfunc[0]:	cxxabiv1::si_class_type_info::~_ _si_class_type_info()
vfunc[1]:	cxxabiv1::si_class_type_info::~_ _si_class_type_info()

vfunc[2]:	type_info::is_pointer_p() const
vfunc[3]:	type_info::is_function_p() const
vfunc[4]:	cxxabiv1::class_type_info::do_ catch(type_info const*, void**, unsigned int) const
vfunc[5]:	cxxabiv1::class_type_info::do_ upcast(cxxabiv1::class_type_info const*, void**) const
vfunc[6]:	cxxabiv1::si_class_type_info:: do_upcast(cxxabiv1::class_type_ info const*, void const*,cxxabiv1::class_type_info::upc ast_result&) const
vfunc[7]:	cxxabiv1::si_class_type_info:: do_dyncast(int,     _cxxabiv1::class_type_info::sub     _kind,cxxabiv1::class_type_info const*, void const*,     _cxxabiv1::class_type_info const*, void const*,     _cxxabiv1::class_type_info::dyn cast_result&) const
vfunc[8]:	cxxabiv1::si_class_type_info:: do_find_public_src(int, void const*,    cxxabiv1::class_type_info const*, void const*) const

The Run Time Type Information for the \_\_cxxabiv1::\_si\_class\_type\_info class is described by <u>Table 7-13</u>

Table 7-13 typeinfo for \_\_cxxabiv1::\_\_si\_class\_type\_info

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for cxxabiv1::si_class_type_info

#### 7.1.11.2 Interfaces for Class \_\_cxxabiv1::\_\_si\_class\_type\_info

An LSB conforming implementation shall provide the architecture specific methods for Class \_\_cxxabiv1::\_\_si\_class\_type\_info specified in <u>Table 7-14</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-14 libstdcxx - Class \_\_cxxabiv1::\_si\_class\_type\_info Function Interfaces

```
__cxxabiv1::__si_class_type_info::__do_dyncast(int,
__cxxabiv1::__class_type_info::__sub_kind, __cxxabiv1::__class_type_info
const*, void const*, __cxxabiv1::__class_type_info const*, void const*,
__cxxabiv1::__class_type_info::__dyncast_result&) const(CXXABI_1.3)
[CXXABI]
```

\_\_cxxabiv1::\_\_si\_class\_type\_info::\_\_do\_find\_public\_src(int, void const\*, \_\_cxxabiv1::\_\_class\_type\_info const\*, void const\*) const(CXXABI\_1.3)
[CXXABI]

## 7.1.12 Class \_\_cxxabiv1::\_\_vmi\_class\_type\_info

#### 7.1.12.1 Class data for \_\_cxxabiv1::\_\_vmi\_class\_type\_info

The virtual table for the \_\_cxxabiv1::\_\_vmi\_class\_type\_info class is described by Table 7-15

Table 7-15 Primary vtable for \_\_cxxabiv1::\_\_vmi\_class\_type\_info

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo forcxxabiv1::vmi_class_type_info
vfunc[0]:	cxxabiv1::vmi_class_type_info:: ~vmi_class_type_info()
vfunc[1]:	cxxabiv1::vmi_class_type_info:: ~vmi_class_type_info()
vfunc[2]:	type_info::is_pointer_p() const
vfunc[3]:	type_info::is_function_p() const
vfunc[4]:	cxxabiv1::class_type_info::do_ catch(type_info const*, void**, unsigned int) const
vfunc[5]:	cxxabiv1::class_type_info::do_ upcast(cxxabiv1::class_type_info const*, void**) const
vfunc[6]:	cxxabiv1::vmi_class_type_info::_ _do_upcast(cxxabiv1::class_type _info const*, void const*, cxxabiv1::class_type_info::upc ast_result&) const
vfunc[7]:	cxxabiv1::vmi_class_type_info::do_dyncast(int,cxxabiv1::class_type_info::sub _kind,cxxabiv1::class_type_info const*, void const*,cxxabiv1::class_type_info const*, void const*,cxxabiv1::class_type_info::dyn cast_result&) const
vfunc[8]:	cxxabiv1::vmi_class_type_info::_ _do_find_public_src(int, void const*, cxxabiv1::class_type_info const*, void const*) const

The Run Time Type Information for the \_\_cxxabiv1::\_vmi\_class\_type\_info class is described by <u>Table 7-16</u>

Table 7-16 typeinfo for \_\_cxxabiv1::\_\_vmi\_class\_type\_info

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name forcxxabiv1::vmi_class_type_info

#### 7.1.12.2 Interfaces for Class \_\_cxxabiv1::\_\_vmi\_class\_type\_info

An LSB conforming implementation shall provide the architecture specific methods for Class \_\_cxxabiv1::\_vmi\_class\_type\_info specified in <u>Table 7-17</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-17 libstdcxx - Class \_\_cxxabiv1::\_vmi\_class\_type\_info Function Interfaces

```
__cxxabiv1::__vmi_class_type_info::__do_dyncast(int,
__cxxabiv1::__class_type_info::__sub_kind, __cxxabiv1::__class_type_info
const*, void const*, __cxxabiv1::__class_type_info const*, void const*,
__cxxabiv1::__class_type_info::__dyncast_result&) const(CXXABI_1.3)
[CXXABI]

__cxxabiv1::__vmi_class_type_info::__do_find_public_src(int, void const*,
__cxxabiv1::__class_type_info const*, void const*) const(CXXABI_1.3)
[CXXABI]
```

## 7.1.13 Class \_\_cxxabiv1::\_\_fundamental\_type\_info

#### 7.1.13.1 Class data for \_\_cxxabiv1::\_fundamental\_type\_info

The virtual table for the \_\_cxxabiv1::\_\_fundamental\_type\_info class is described in the generic part of this specification.

The Run Time Type Information for the \_\_cxxabiv1::\_\_fundamental\_type\_info class is described by <u>Table 7-18</u>

Table 7-18 typeinfo for \_\_cxxabiv1::\_\_fundamental\_type\_info

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for cxxabiv1::fundamental_type_inf o

#### 7.1.13.2 Interfaces for Class \_\_cxxabiv1::\_\_fundamental\_type\_info

No external methods are defined for libstdcxx - Class \_\_cxxabiv1::\_\_fundamental\_type\_info in this part of the specification. See also the generic specification.

#### 7.1.14 Class

\_cxxabiv1::\_\_pointer\_to\_member\_type\_info

#### 7.1.14.1 Class data for \_\_cxxabiv1::\_pointer\_to\_member\_type\_info

The virtual table for the \_\_cxxabiv1::\_\_pointer\_to\_member\_type\_info class is described in the generic part of this specification.

The Run Time Type Information for the \_\_cxxabiv1::\_pointer\_to\_member\_type\_info class is described by <u>Table 7-19</u>

Table 7-19 typeinfo for \_\_cxxabiv1::\_\_pointer\_to\_member\_type\_info

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for cxxabiv1::pointer_to_member_t ype_info

#### 7.1.14.2 Interfaces for Class

#### \_\_cxxabiv1::\_\_pointer\_to\_member\_type\_info

No external methods are defined for libstdcxx - Class \_\_cxxabiv1::\_pointer\_to\_member\_type\_info in this part of the specification. See also the generic specification.

## 7.1.15 Class \_\_gnu\_cxx::stdio\_filebuf<char, char traits<char>

## 7.1.15.1 Interfaces for Class \_\_gnu\_cxx::stdio\_filebuf<char, char traits<char> >

No external methods are defined for libstdcxx - Class \_\_gnu\_cxx::stdio\_filebuf<char, std::char\_traits<char> > in this part of the specification. See also the generic specification.

## 7.1.16 Class \_\_gnu\_cxx::stdio\_filebuf<wchar\_t, char traits<wchar t> >

## 7.1.16.1 Interfaces for Class \_\_gnu\_cxx::stdio\_filebuf<wchar\_t, char\_traits<wchar\_t> >

No external methods are defined for libstdcxx - Class \_\_gnu\_cxx::stdio\_filebuf<wchar\_t, std::char\_traits<wchar\_t>> in this part of the specification. See also the generic specification.

## 7.1.17 Class \_\_gnu\_cxx::\_\_pool\_alloc\_base

#### 7.1.17.1 Interfaces for Class \_\_gnu\_cxx::\_\_pool\_alloc\_base

An LSB conforming implementation shall provide the architecture specific methods for Class \_\_gnu\_cxx::\_pool\_alloc\_base specified in <u>Table 7-20</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-20 libstdcxx - Class \_\_gnu\_cxx::\_pool\_alloc\_base Function Interfaces

gnu_cxx::pool_alloc_base::_M_get_free_list(unsigned int) (GLIBCXX_3.4.2) [LSB]	
gnu_cxx::pool_alloc_base::_M_refill(unsigned int)(GLIBCXX_3.4.2) [LSB]	

## 7.1.18 Class \_\_gnu\_cxx::stdio\_sync\_filebuf<char, char\_traits<char> >

## 7.1.18.1 Class data for \_\_gnu\_cxx::stdio\_sync\_filebuf<char, char\_traits<char> >

The virtual table for the \_\_gnu\_cxx::stdio\_sync\_filebuf<char, std::char\_traits<char> > class is described by <u>Table 7-21</u>

Table 7-21 Primary vtable for \_\_gnu\_cxx::stdio\_sync\_filebuf<char, char\_traits<char>>

Base Offset	0
Virtual Base Offset	0
RTTI	<pre>typeinfo forgnu_cxx::stdio_sync_filebuf<char, char_traits<char="">&gt;</char,></pre>
vfunc[0]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char> &gt;::~stdio_sync_filebuf()</char></char, 
vfunc[1]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char> &gt;::~stdio_sync_filebuf()</char></char, 
vfunc[2]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::imbue(locale const&amp;)</char,></pre>
vfunc[3]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::setbuf(char*,   int)</char,></pre>
vfunc[4]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char> &gt;::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</char></char, 
vfunc[5]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char> &gt;::seekpos(fpos<mbstate_t>, _Ios_Openmode)</mbstate_t></char></char, 
vfunc[6]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char="">&gt;::sync()</char,>
vfunc[7]:	<pre>basic_streambuf<char, char_traits<char="">&gt;::showmanyc()</char,></pre>
vfunc[8]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char> &gt;::xsgetn(char*, int)</char></char, 
vfunc[9]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char="">&gt;::underflow()</char,>
vfunc[10]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char="">&gt;::uflow()</char,>
vfunc[11]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char> &gt;::pbackfail(int)</char></char, 

vfunc[12]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char>&gt;::xsputn(char const*, int)</char></char, 
vfunc[13]:	gnu_cxx::stdio_sync_filebuf <char, char_traits<char> &gt;::overflow(int)</char></char, 

## 7.1.18.2 Interfaces for Class \_\_gnu\_cxx::stdio\_sync\_filebuf<char, char\_traits<char> >

No external methods are defined for libstdcxx - Class \_\_gnu\_cxx::stdio\_sync\_filebuf<char, std::char\_traits<char> > in this part of the specification. See also the generic specification.

## 7.1.19 Class \_\_gnu\_cxx::stdio\_sync\_filebuf<wchar\_t, char\_traits<wchar\_t> >

## 7.1.19.1 Class data for \_\_gnu\_cxx::stdio\_sync\_filebuf<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the \_\_gnu\_cxx::stdio\_sync\_filebuf<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-22</u>

Table 7-22 Primary vtable for \_\_gnu\_cxx::stdio\_sync\_filebuf<wchar\_t, char\_traits<wchar\_t>>

Base Offset	0
Virtual Base Offset	0
RTTI	<pre>typeinfo forgnu_cxx::stdio_sync_filebuf<wcha char_traits<wchar_t="" r_t,="">&gt;</wcha></pre>
vfunc[0]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::~stdio_sync_filebuf()</wchar_t></wcha 
vfunc[1]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::~stdio_sync_filebuf()</wchar_t></wcha 
vfunc[2]:	<pre>basic_streambuf<wchar_t, char_traits<wchar_t=""> &gt;::imbue(locale const&amp;)</wchar_t,></pre>
vfunc[3]:	<pre>basic_streambuf<wchar_t, char_traits<wchar_t=""> &gt;::setbuf(wchar_t*, int)</wchar_t,></pre>
vfunc[4]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</wchar_t></wcha 
vfunc[5]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::seekpos(fpos<mbstate_t>, Ios_Openmode)</mbstate_t></wchar_t></wcha 
vfunc[6]:	gnu_cxx::stdio_sync_filebuf <wcha< td=""></wcha<>

	•
	r_t, char_traits <wchar_t> &gt;::sync()</wchar_t>
vfunc[7]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::showmanyc()</wchar_t,>
vfunc[8]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::xsgetn(wchar_t*, int)</wchar_t></wcha 
vfunc[9]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::underflow()</wchar_t></wcha 
vfunc[10]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::uflow()</wchar_t></wcha 
vfunc[11]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::pbackfail(unsigned int)</wchar_t></wcha 
vfunc[12]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::xsputn(wchar_t const*, int)</wchar_t></wcha 
vfunc[13]:	gnu_cxx::stdio_sync_filebuf <wcha r_t, char_traits<wchar_t> &gt;::overflow(unsigned int)</wchar_t></wcha 

#### 7.1.19.2 Interfaces for Class

#### \_\_gnu\_cxx::stdio\_sync\_filebuf<wchar\_t, char\_traits<wchar\_t> >

No external methods are defined for libstdcxx - Class \_\_gnu\_cxx::stdio\_sync\_filebuf<wchar\_t, std::char\_traits<wchar\_t>> in this part of the specification. See also the generic specification.

## 7.1.20 Class exception

#### 7.1.20.1 Class data for exception

The virtual table for the std::exception class is described in the generic part of this specification.

The Run Time Type Information for the std::exception class is described by Table 7-23

Table 7-23 typeinfo for exception

Base Vtable	vtable forcxxabiv1::class_type_info
Name	typeinfo name for exception

#### 7.1.20.2 Interfaces for Class exception

No external methods are defined for libstdcxx - Class std::exception in this part of the specification. See also the generic specification.

## 7.1.21 Class bad\_typeid

#### 7.1.21.1 Class data for bad\_typeid

The virtual table for the std::bad\_typeid class is described in the generic part of this specification.

The Run Time Type Information for the std::bad\_typeid class is described by Table 7-24

Table 7-24 typeinfo for bad\_typeid

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for bad_typeid

#### 7.1.21.2 Interfaces for Class bad\_typeid

No external methods are defined for libstdcxx - Class std::bad\_typeid in this part of the specification. See also the generic specification.

## 7.1.22 Class logic\_error

#### 7.1.22.1 Class data for logic\_error

The virtual table for the std::logic\_error class is described in the generic part of this specification.

The Run Time Type Information for the std::logic\_error class is described by Table 7-25

Table 7-25 typeinfo for logic error

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for logic_error

#### 7.1.22.2 Interfaces for Class logic\_error

No external methods are defined for libstdcxx - Class std::logic\_error in this part of the specification. See also the generic specification.

## 7.1.23 Class range\_error

#### 7.1.23.1 Class data for range\_error

The virtual table for the std::range\_error class is described in the generic part of this specification.

The Run Time Type Information for the std::range\_error class is described by Table 7-26

Table 7-26 typeinfo for range\_error

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for range_error

#### 7.1.23.2 Interfaces for Class range\_error

No external methods are defined for libstdcxx - Class std::range\_error in this part of the specification. See also the generic specification.

## 7.1.24 Class domain\_error

#### 7.1.24.1 Class data for domain\_error

The virtual table for the std::domain\_error class is described in the generic part of this specification.

The Run Time Type Information for the std::domain\_error class is described by Table 7-27

Table 7-27 typeinfo for domain\_error

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for domain_error

#### 7.1.24.2 Interfaces for Class domain\_error

No external methods are defined for libstdcxx - Class std::domain\_error in this part of the specification. See also the generic specification.

## 7.1.25 Class length error

#### 7.1.25.1 Class data for length\_error

The virtual table for the std::length\_error class is described in the generic part of this specification.

The Run Time Type Information for the std::length\_error class is described by Table 7-28

Table 7-28 typeinfo for length\_error

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for length_error

#### 7.1.25.2 Interfaces for Class length\_error

No external methods are defined for libstdcxx - Class std::length\_error in this part of the specification. See also the generic specification.

## 7.1.26 Class out\_of\_range

#### 7.1.26.1 Class data for out\_of\_range

The virtual table for the std::out\_of\_range class is described in the generic part of this specification.

The Run Time Type Information for the std::out\_of\_range class is described by Table 7-29

Table 7-29 typeinfo for out\_of\_range

Base Vtable	I (11 C
I Base Vtable	I vtable for
Dasc viable	v tubic ioi

	cxxabiv1::si_class_type_info
Name	typeinfo name for out_of_range

#### 7.1.26.2 Interfaces for Class out\_of\_range

No external methods are defined for libstdcxx - Class std::out\_of\_range in this part of the specification. See also the generic specification.

### 7.1.27 Class bad\_exception

#### 7.1.27.1 Class data for bad\_exception

The virtual table for the std::bad\_exception class is described in the generic part of this specification.

The Run Time Type Information for the std::bad\_exception class is described by Table 7-30

Table 7-30 typeinfo for bad\_exception

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for bad_exception

#### 7.1.27.2 Interfaces for Class bad\_exception

No external methods are defined for libstdcxx - Class std::bad\_exception in this part of the specification. See also the generic specification.

### 7.1.28 Class runtime\_error

#### 7.1.28.1 Class data for runtime\_error

The virtual table for the std::runtime\_error class is described in the generic part of this specification.

The Run Time Type Information for the std::runtime\_error class is described by Table 7-31

Table 7-31 typeinfo for runtime\_error

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for runtime_error

#### 7.1.28.2 Interfaces for Class runtime\_error

No external methods are defined for libstdcxx - Class std::runtime\_error in this part of the specification. See also the generic specification.

### 7.1.29 Class overflow\_error

#### 7.1.29.1 Class data for overflow\_error

The virtual table for the std::overflow\_error class is described in the generic part of this specification.

The Run Time Type Information for the std::overflow\_error class is described

#### by <u>Table 7-32</u>

#### Table 7-32 typeinfo for overflow\_error

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for overflow_error

#### 7.1.29.2 Interfaces for Class overflow\_error

No external methods are defined for libstdcxx - Class std::overflow\_error in this part of the specification. See also the generic specification.

### 7.1.30 Class underflow error

#### 7.1.30.1 Class data for underflow\_error

The virtual table for the std::underflow\_error class is described in the generic part of this specification.

The Run Time Type Information for the std::underflow\_error class is described by <u>Table 7-33</u>

Table 7-33 typeinfo for underflow\_error

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for underflow_error

#### 7.1.30.2 Interfaces for Class underflow\_error

No external methods are defined for libstdcxx - Class std::underflow\_error in this part of the specification. See also the generic specification.

### 7.1.31 Class invalid\_argument

#### 7.1.31.1 Class data for invalid\_argument

The virtual table for the std::invalid\_argument class is described in the generic part of this specification.

The Run Time Type Information for the std::invalid\_argument class is described by  $\underline{\text{Table 7-34}}$ 

Table 7-34 typeinfo for invalid\_argument

Base Vtable	vtable for
	cxxabiv1::si_class_type_info
Name	typeinfo name for invalid_argument

#### 7.1.31.2 Interfaces for Class invalid\_argument

No external methods are defined for libstdcxx - Class std::invalid\_argument in this part of the specification. See also the generic specification.

### 7.1.32 Class bad\_cast

#### 7.1.32.1 Class data for bad\_cast

The virtual table for the std::bad\_cast class is described in the generic part of this specification.

The Run Time Type Information for the std::bad\_cast class is described by <u>Table 7-35</u>

Table 7-35 typeinfo for bad\_cast

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for bad_cast

#### 7.1.32.2 Interfaces for Class bad\_cast

No external methods are defined for libstdcxx - Class std::bad\_cast in this part of the specification. See also the generic specification.

### 7.1.33 Class bad\_alloc

#### 7.1.33.1 Class data for bad\_alloc

The virtual table for the std::bad\_alloc class is described in the generic part of this specification.

The Run Time Type Information for the std::bad\_alloc class is described by Table 7-36

Table 7-36 typeinfo for bad\_alloc

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for bad_alloc

#### 7.1.33.2 Interfaces for Class bad\_alloc

No external methods are defined for libstdcxx - Class std::bad\_alloc in this part of the specification. See also the generic specification.

### 7.1.34 struct numeric limits base

#### 7.1.34.1 Interfaces for struct \_\_numeric\_limits\_base

No external methods are defined for libstdcxx - struct \_\_numeric\_limits\_base in this part of the specification. See also the generic specification.

## 7.1.35 struct numeric\_limits<long double>

#### 7.1.35.1 Interfaces for struct numeric limits<long double>

No external methods are defined for libstdcxx - struct numeric\_limits<long double> in this part of the specification. See also the generic specification.

### 7.1.36 struct numeric\_limits<long long>

#### 7.1.36.1 Interfaces for struct numeric\_limits<long long>

No external methods are defined for libstdcxx - struct numeric\_limits<long long> in this part of the specification. See also the generic specification.

### 7.1.37 struct numeric\_limits<unsigned long long>

#### 7.1.37.1 Interfaces for struct numeric\_limits<unsigned long long>

No external methods are defined for libstdcxx - struct numeric\_limits<unsigned long long> in this part of the specification. See also the generic specification.

### 7.1.38 struct numeric\_limits<float>

#### 7.1.38.1 Interfaces for struct numeric\_limits<float>

No external methods are defined for libstdcxx - struct numeric\_limits<float> in this part of the specification. See also the generic specification.

### 7.1.39 struct numeric limits<double>

#### 7.1.39.1 Interfaces for struct numeric limits<double>

No external methods are defined for libstdcxx - struct numeric\_limits<double> in this part of the specification. See also the generic specification.

### 7.1.40 struct numeric\_limits<short>

#### 7.1.40.1 Interfaces for struct numeric limits<short>

No external methods are defined for libstdcxx - struct numeric\_limits<short> in this part of the specification. See also the generic specification.

## 7.1.41 struct numeric\_limits<unsigned short>

#### 7.1.41.1 Interfaces for struct numeric\_limits<unsigned short>

No external methods are defined for libstdcxx - struct numeric\_limits<unsigned short> in this part of the specification. See also the generic specification.

### 7.1.42 struct numeric\_limits<int>

#### 7.1.42.1 Interfaces for struct numeric\_limits<int>

No external methods are defined for libstdcxx - struct numeric\_limits<int> in this part of the specification. See also the generic specification.

## 7.1.43 struct numeric\_limits<unsigned int>

#### 7.1.43.1 Interfaces for struct numeric\_limits<unsigned int>

No external methods are defined for libstdcxx - struct numeric\_limits<unsigned int> in this part of the specification. See also the generic specification.

### 7.1.44 struct numeric\_limits<long>

#### 7.1.44.1 Interfaces for struct numeric\_limits<long>

No external methods are defined for libstdcxx - struct numeric\_limits<long> in this part of the specification. See also the generic specification.

### 7.1.45 struct numeric\_limits<unsigned long>

#### 7.1.45.1 Interfaces for struct numeric\_limits<unsigned long>

No external methods are defined for libstdcxx - struct numeric\_limits<unsigned long> in this part of the specification. See also the generic specification.

### 7.1.46 struct numeric\_limits<wchar\_t>

#### 7.1.46.1 Interfaces for struct numeric\_limits<wchar\_t>

No external methods are defined for libstdcxx - struct numeric\_limits<wchar\_t> in this part of the specification. See also the generic specification.

### 7.1.47 struct numeric limits<unsigned char>

#### 7.1.47.1 Interfaces for struct numeric\_limits<unsigned char>

No external methods are defined for libstdcxx - struct numeric\_limits<unsigned char> in this part of the specification. See also the generic specification.

### 7.1.48 struct numeric\_limits<signed char>

#### 7.1.48.1 Interfaces for struct numeric\_limits<signed char>

No external methods are defined for libstdcxx - struct numeric\_limits<signed char> in this part of the specification. See also the generic specification.

## 7.1.49 struct numeric\_limits<char>

#### 7.1.49.1 Interfaces for struct numeric\_limits<char>

No external methods are defined for libstdcxx - struct numeric\_limits<char> in this part of the specification. See also the generic specification.

### 7.1.50 struct numeric\_limits<bool>

#### 7.1.50.1 Interfaces for struct numeric limits<bool>

No external methods are defined for libstdcxx - struct numeric\_limits<bool> in this part of the specification. See also the generic specification.

## 7.1.51 Class ctype\_base

#### 7.1.51.1 Class data for ctype\_base

The Run Time Type Information for the std::ctype\_base class is described by Table 7-37

Table 7-37 typeinfo for ctype\_base

Base Vtable	vtable for cxxabiv1::class_type_info
Name	typeinfo name for ctype_base

#### 7.1.51.2 Interfaces for Class ctype\_base

No external methods are defined for libstdcxx - Class std::ctype\_base in this part of the specification. See also the generic specification.

### 7.1.52 Class \_\_ctype\_abstract\_base<char>

#### 7.1.52.1 Class data for \_\_ctype\_abstract\_base<char>

The virtual table for the std::\_\_ctype\_abstract\_base<char> class is described in the generic part of this specification.

#### 7.1.52.2 Interfaces for Class \_\_ctype\_abstract\_base<char>

No external methods are defined for libstdcxx - Class std::\_\_ctype\_abstract\_base<char> in this part of the specification. See also the generic specification.

### 7.1.53 Class \_\_ctype\_abstract\_base<wchar\_t>

#### 7.1.53.1 Class data for \_\_ctype\_abstract\_base<wchar\_t>

The virtual table for the std::\_\_ctype\_abstract\_base<wchar\_t> class is described in the generic part of this specification.

#### 7.1.53.2 Interfaces for Class \_\_ctype\_abstract\_base<wchar\_t>

No external methods are defined for libstdcxx - Class std::\_\_ctype\_abstract\_base<wchar\_t> in this part of the specification. See also the generic specification.

### 7.1.54 Class ctype<char>

#### 7.1.54.1 Class data for ctype<char>

The virtual table for the std::ctype<char> class is described in the generic part of this specification.

#### 7.1.54.2 Interfaces for Class ctype<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::ctype<char> specified in <u>Table 7-38</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-38 libstdcxx - Class ctype<char> Function Interfaces

ctype<char>::ctype(\_\_locale\_struct\*, unsigned short const\*, bool, unsigned
int)(GLIBCXX\_3.4) [ISOCXX]

ctype<char>::ctype(unsigned short const\*, bool, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

ctype<char>::ctype(\_\_locale\_struct\*, unsigned short const\*, bool, unsigned

#### int)(GLIBCXX\_3.4) [ISOCXX]

ctype<char>::ctype(unsigned short const\*, bool, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

### 7.1.55 Class ctype<wchar\_t>

#### 7.1.55.1 Class data for ctype<wchar\_t>

The virtual table for the std::ctype<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::ctype<wchar\_t> class is described by <u>Table 7-39</u>

#### Table 7-39 typeinfo for ctype<wchar\_t>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for ctype <wchar_t></wchar_t>

#### 7.1.55.2 Interfaces for Class ctype<wchar\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::ctype<wchar\_t> specified in <u>Table 7-40</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-40 libstdcxx - Class ctype<wchar\_t> Function Interfaces

ctype <wchar_t>::ctype(locale_struct*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>	
ctype <wchar_t>::ctype(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>	
ctype <wchar_t>::ctype(locale_struct*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>	
ctype <wchar_t>::ctype(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>	

### 7.1.56 Class ctype\_byname<char>

#### 7.1.56.1 Class data for ctype\_byname<char>

The virtual table for the std::ctype\_byname<char> class is described in the generic part of this specification.

The Run Time Type Information for the std::ctype\_byname<char> class is described by <u>Table 7-41</u>

Table 7-41 typeinfo for ctype\_byname<char>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for ctype_byname <char></char>

#### 7.1.56.2 Interfaces for Class ctype byname<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::ctype\_byname<char> specified in <a href="Table 7-42">Table 7-42</a>, with the

full mandatory functionality as described in the referenced underlying specification.

#### Table 7-42 libstdcxx - Class ctype\_byname<char> Function Interfaces

ctype\_byname<char>::ctype\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

ctype\_byname<char>::ctype\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

### 7.1.57 Class ctype\_byname<wchar\_t>

#### 7.1.57.1 Class data for ctype\_byname<wchar\_t>

The virtual table for the std::ctype\_byname<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::ctype\_byname<wchar\_t> class is described by <u>Table 7-43</u>

Table 7-43 typeinfo for ctype\_byname<wchar\_t>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for ctype_byname <wchar_t></wchar_t>

### 7.1.57.2 Interfaces for Class ctype\_byname<wchar\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::ctype\_byname<wchar\_t> specified in <u>Table 7-44</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-44 libstdcxx - Class ctype\_byname<wchar\_t> Function Interfaces

ctype\_byname<wchar\_t>::ctype\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [CXXABI]

ctype\_byname<wchar\_t>::ctype\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [CXXABI]

# 7.1.58 Class basic\_string<char, char\_traits<char>, allocator<char> >

## 7.1.58.1 Interfaces for Class basic\_string<char, char\_traits<char>, allocator<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_string<char, std::char\_traits<char>, std::allocator<char> > specified in <a href="Table 7-45">Table 7-45</a>, with the full mandatory functionality as described in the referenced underlying specification.

## Table 7-45 libstdcxx - Class basic\_string<char, char\_traits<char>, allocator<char> > Function Interfaces

basic\_string<char, char\_traits<char>, allocator<char> >::find\_last\_of(char
const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find\_last\_of(char const\*, unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find\_last\_of(basic\_string<char, char\_traits<char>, allocator<char> >
const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find\_last\_of(char, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find\_first\_of(char const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find\_first\_of(char const\*, unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find\_first\_of(basic\_string<char, char\_traits<char>, allocator<char> >
const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find\_first\_of(char, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::\_M\_check\_length(unsigned int, unsigned int, char const\*)
const(GLIBCXX\_3.4.5) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::find\_last\_not\_of(char const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::find\_last\_not\_of(char const\*, unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find\_last\_not\_of(basic\_string<char, char\_traits<char>, allocator<char> >
const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::find\_last\_not\_of(char, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find\_first\_not\_of(char const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find\_first\_not\_of(char const\*, unsigned int, unsigned int)
const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find\_first\_not\_of(basic\_string<char, char\_traits<char>, allocator<char>>
const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find\_first\_not\_of(char, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::at(unsigned int)
const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::copy(char\*, unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find(char const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find(char const\*,

#### unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::find(basic\_string<char, char\_traits<char>, allocator<char> > const&,
unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::find(char, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::rfind(char const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::rfind(char const\*, unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::rfind(basic\_string<char, char\_traits<char>, allocator<char> > const&,
unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::rfind(char, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::substr(unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::compare(unsigned int, unsigned int, char const\*) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::compare(unsigned int, unsigned int, char const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::compare(unsigned int, unsigned int, basic\_string<char, char\_traits<char>, allocator<char>> const&) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::compare(unsigned int, unsigned int, basic\_string<char, char\_traits<char>, allocator<char> > const&, unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::\_M\_check(unsigned int, char const\*) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::\_M\_limit(unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::operator[](unsigned
int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::\_S\_construct(unsigned int, char, allocator<char> const&)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::\_M\_replace\_aux(unsigned int, unsigned int, unsigned int, char)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::\_M\_replace\_safe(unsigned int, unsigned int, char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::at(unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::\_Rep::\_M\_set\_length\_and\_sharable(unsigned int)(GLIBCXX\_3.4.5)

#### [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::\_Rep::\_M\_clone(allocator<char> const&, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::\_Rep::\_S\_create(unsigned int, unsigned int, allocator<char> const&)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::erase(unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::append(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::append(basic\_string<char, char\_traits<char>, allocator<char> > const&,
unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::append(unsigned int, char)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::assign(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::assign(basic\_string<char, char\_traits<char>, allocator<char> > const&,
unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::assign(unsigned int, char)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char\*
>::insert(\_\_gnu\_cxx::\_\_normal\_iterator<char\*, basic\_string<char,
char\_traits<char>, allocator<char>>>, unsigned int, char)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::insert(unsigned int, char const\*)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::insert(unsigned int, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::insert(unsigned int, basic\_string<char, char\_traits<char>, allocator<char> > const&) (GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::insert(unsigned int, basic\_string<char, char\_traits<char>, allocator<char> > const&, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::insert(unsigned int, unsigned int, char)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::resize(unsigned int) (GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::resize(unsigned int, char)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::\_M\_copy(char\*, char const\*, unsigned int)(GLIBCXX\_3.4.5) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::\_M\_move(char\*,

#### char const\*, unsigned int)(GLIBCXX\_3.4.5) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::replace(\_\_gnu\_cxx::\_\_normal\_iterator<char\*, basic\_string<char, char\_traits<char>, allocator<char> >>, \_\_gnu\_cxx::\_\_normal\_iterator<char\*, basic\_string<char, char\_traits<char>, allocator<char> >>, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::replace(\_\_gnu\_cxx::\_\_normal\_iterator<char\*, basic\_string<char, char\_traits<char>, allocator<char> >>, \_\_gnu\_cxx::\_\_normal\_iterator<char\*, basic\_string<char, char\_traits<char>, allocator<char> >>, unsigned int, char) (GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::replace(unsigned int, unsigned int, char const\*)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::replace(unsigned int, unsigned int, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::replace(unsigned int, unsigned int, basic\_string<char, char\_traits<char>, allocator<char>> const&)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::replace(unsigned int, unsigned int, basic\_string<char, char\_traits<char>, allocator<char>> const&, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::replace(unsigned int, unsigned int, unsigned int, char)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>>::reserve(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::\_M\_assign(char\*, unsigned int, char)(GLIBCXX\_3.4.5) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::\_M\_mutate(unsigned int, unsigned int, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::basic\_string(char const\*, unsigned int, allocator<char> const&)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::basic\_string(basic\_string<char, char\_traits<char>, allocator<char> >
const&, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::basic\_string(basic\_string<char, char\_traits<char>, allocator<char> >
const&, unsigned int, unsigned int, allocator<char> const&)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::basic\_string(unsigned int, char, allocator<char> const&)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::basic\_string(char const\*, unsigned int, allocator<char> const&)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::basic\_string(basic\_string<char, char\_traits<char>, allocator<char> >
const&, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::basic\_string(basic\_string<char, char\_traits<char>, allocator<char>>
const&, unsigned int, unsigned int, allocator<char> const&)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char>
>::basic\_string(unsigned int, char, allocator<char> const&)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<char, char\_traits<char>, allocator<char> >::operator[](unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.59 Class basic\_string<wchar\_t, char traits<wchar t>, allocator<wchar t> >

# 7.1.59.1 Interfaces for Class basic\_string<wchar\_t, char traits<wchar t>, allocator<wchar t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_string<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > specified in <u>Table 7-46</u>, with the full mandatory functionality as described in the referenced underlying specification.

## Table 7-46 libstdcxx - Class basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> > Function Interfaces

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_last\_of(wchar\_t const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_last\_of(wchar\_t const\*, unsigned int, unsigned int)
const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_last\_of(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::find\_last\_of(wchar\_t, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_of(wchar\_t const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_of(wchar\_t const\*, unsigned int, unsigned int)
const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_of(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_of(wchar\_t, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_check\_length(unsigned int, unsigned int, char const\*)
const(GLIBCXX\_3.4.5) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_last\_not\_of(wchar\_t const\*, unsigned int) const(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_last\_not\_of(wchar\_t const\*, unsigned int, unsigned int)
const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_last\_not\_of(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_last\_not\_of(wchar\_t, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_not\_of(wchar\_t const\*, unsigned int) const(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_not\_of(wchar\_t const\*, unsigned int, unsigned int)
const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_not\_of(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find\_first\_not\_of(wchar\_t, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::at(unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::copy(wchar\_t\*, unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find(wchar\_t const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find(wchar\_t const\*, unsigned int, unsigned int) const(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find(basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >
const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::find(wchar\_t, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::rfind(wchar\_t const\*, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::rfind(wchar\_t const\*, unsigned int, unsigned int) const(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::rfind(basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >
const&, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::rfind(wchar\_t, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::substr(unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::compare(unsigned int, unsigned int, wchar\_t const\*) const(GLIBCXX\_3.4)

#### [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::compare(unsigned int, unsigned int, wchar\_t const\*, unsigned int)
const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::compare(unsigned int, unsigned int, basic\_string<wchar\_t,
char\_traits<wchar\_t>, allocator<wchar\_t> > const&) const(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::compare(unsigned int, unsigned int, basic\_string<wchar\_t,
char\_traits<wchar\_t>, allocator<wchar\_t> > const&, unsigned int, unsigned
int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_check(unsigned int, char const\*) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_limit(unsigned int, unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::operator[](unsigned int) const(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_S\_construct(unsigned int, wchar\_t, allocator<wchar\_t> const&)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_replace\_aux(unsigned int, unsigned int, unsigned int, wchar\_t)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_replace\_safe(unsigned int, unsigned int, wchar\_t const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::at(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::\_Rep::\_M\_set\_length\_and\_sharable(unsigned int)(GLIBCXX\_3.4.5)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_Rep::\_M\_clone(allocator<wchar\_t> const&, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_Rep::\_S\_create(unsigned int, unsigned int, allocator<wchar\_t> const&)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::erase(unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::append(wchar\_t const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::append(basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
> const&, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::append(unsigned int, wchar\_t)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::assign(wchar\_t const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::assign(basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >
const&, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::assign(unsigned int, wchar\_t)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::insert(\_\_gnu\_cxx::\_\_normal\_iterator<wchar\_t\*, basic\_string<wchar\_t,
char\_traits<wchar\_t>, allocator<wchar\_t> >>, unsigned int, wchar\_t)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::insert(unsigned int, wchar\_t const\*)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::insert(unsigned int, wchar\_t const\*, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::insert(unsigned int, basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::insert(unsigned int, basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::insert(unsigned int, unsigned int, wchar\_t)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::resize(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::resize(unsigned int, wchar\_t)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_copy(wchar\_t\*, wchar\_t const\*, unsigned int)(GLIBCXX\_3.4.5)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_move(wchar\_t\*, wchar\_t const\*, unsigned int)(GLIBCXX\_3.4.5)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::replace(\_\_gnu\_cxx::\_\_normal\_iterator<wchar\_t\*, basic\_string<wchar\_t,
char\_traits<wchar\_t>, allocator<wchar\_t>>>,
 \_\_gnu\_cxx::\_\_normal\_iterator<wchar\_t\*, basic\_string<wchar\_t,
char\_traits<wchar\_t>, allocator<wchar\_t>>>, wchar\_t const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::replace(\_\_gnu\_cxx::\_\_normal\_iterator<wchar\_t\*, basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >>,
 \_\_gnu\_cxx::\_\_normal\_iterator<wchar\_t\*, basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >>, unsigned int, wchar\_t) (GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>

>::replace(unsigned int, unsigned int, wchar\_t const\*)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::replace(unsigned int, unsigned int, wchar\_t const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::replace(unsigned int, unsigned int, basic\_string<wchar\_t,
char\_traits<wchar\_t>, allocator<wchar\_t> > const&)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::replace(unsigned int, unsigned int, basic\_string<wchar\_t,
char\_traits<wchar\_t>, allocator<wchar\_t> > const&, unsigned int, unsigned
int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::replace(unsigned int, unsigned int, unsigned int, wchar\_t)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::reserve(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_assign(wchar\_t\*, unsigned int, wchar\_t)(GLIBCXX\_3.4.5) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_mutate(unsigned int, unsigned int, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(wchar\_t const\*, unsigned int, allocator<wchar\_t> const&)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int, unsigned int, allocator<wchar\_t>
const&)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(unsigned int, wchar\_t, allocator<wchar\_t> const&)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(wchar\_t const\*, unsigned int, allocator<wchar\_t> const&)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int, unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(basic\_string<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> > const&, unsigned int, unsigned int, allocator<wchar\_t>
const&)(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::basic\_string(unsigned int, wchar\_t, allocator<wchar\_t> const&)
(GLIBCXX\_3.4) [ISOCXX]

basic\_string<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::operator[](unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.60 Class basic\_stringstream<char, char\_traits<char>, allocator<char> >

## 7.1.60.1 Class data for basic\_stringstream<char, char\_traits<char>, allocator<char> >

The virtual table for the std::basic\_stringstream<char, std::char\_traits<char>, std::allocator<char> > class is described by <a href="Table 7-47">Table 7-47</a>

Table 7-47 Primary vtable for basic\_stringstream<char, char\_traits<char>, allocator<char>>

Base Offset	0
Virtual Base Offset	52
RTTI	typeinfo for basic_stringstream <char, char_traits<char="">, allocator<char> &gt;</char></char,>
vfunc[0]:	basic_stringstream <char, char_traits<char>, allocator<char> &gt;::~basic_stringstream()</char></char></char, 
vfunc[1]:	basic_stringstream <char, char_traits<char>, allocator<char> &gt;::~basic_stringstream()</char></char></char, 

Table 7-48 Secondary vtable for basic\_stringstream<char, char\_traits<char>, allocator<char> >

Base Offset	-8
Virtual Base Offset	44
RTTI	typeinfo for basic_stringstream <char, char_traits<char="">, allocator<char>&gt;</char></char,>
vfunc[0]:	non-virtual thunk to basic_stringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_stringstream()</char></char,>
vfunc[1]:	non-virtual thunk to basic_stringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_stringstream()</char></char,>

Table 7-49 Secondary vtable for basic\_stringstream<char, char\_traits<char>, allocator<char> >

Base Offset	-52
Virtual Base Offset	-52

RTTI	typeinfo for basic_stringstream <char, char_traits<char="">, allocator<char>&gt;</char></char,>
vfunc[0]:	virtual thunk to basic_stringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_stringstream()</char></char,>
vfunc[1]:	virtual thunk to basic_stringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_stringstream()</char></char,>

The VTT for the std::basic\_stringstream<char, std::char\_traits<char>, std::allocator<char> > class is described by <u>Table 7-50</u>

Table 7-50 VTT for basic\_stringstream<char, char\_traits<char>, allocator<char>>

VTT Name	_ZTTSt18basic_stringstreamIcSt11ch ar_traitsIcESaIcEE
Number of Entries	10

# 7.1.60.2 Interfaces for Class basic\_stringstream<char, char\_traits<char>, allocator<char>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_stringstream<char, std::char\_traits<char>, std::allocator<char> > specified in <u>Table 7-51</u>, with the full mandatory functionality as described in the referenced underlying specification.

## Table 7-51 libstdcxx - Class basic\_stringstream<char, char\_traits<char>, allocator<char> > Function Interfaces

non-virtual thunk to basic\_stringstream<char, char\_traits<char>, allocator<char>>::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

non-virtual thunk to basic\_stringstream<char, char\_traits<char>, allocator<char>>::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_stringstream<char, char\_traits<char>, allocator<char>>::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_stringstream<char, char\_traits<char>, allocator<char>>::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

# 7.1.61 Class basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

# 7.1.61.1 Class data for basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

The virtual table for the std::basic\_stringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table 7-52</u>

Table 7-52 Primary vtable for basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

Base Offset	0
Virtual Base Offset	52
RTTI	<pre>typeinfo for basic_stringstream<wchar_t, char_traits<wchar_t="">, allocator<wchar_t>&gt;</wchar_t></wchar_t,></pre>
vfunc[0]:	basic_stringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_stringstream()</wchar_t></wchar_t,>
vfunc[1]:	basic_stringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_stringstream()</wchar_t></wchar_t,>

Table 7-53 Secondary vtable for basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

Base Offset	-8
Virtual Base Offset	44
RTTI	<pre>typeinfo for basic_stringstream<wchar_t, char_traits<wchar_t="">, allocator<wchar_t>&gt;</wchar_t></wchar_t,></pre>
vfunc[0]:	non-virtual thunk to basic_stringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_stringstream()</wchar_t></wchar_t,>
vfunc[1]:	non-virtual thunk to basic_stringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_stringstream()</wchar_t></wchar_t,>

Table 7-54 Secondary vtable for basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

Base Offset	-52
Virtual Base Offset	-52
RTTI	<pre>typeinfo for basic_stringstream<wchar_t, char_traits<wchar_t="">, allocator<wchar_t>&gt;</wchar_t></wchar_t,></pre>
vfunc[0]:	virtual thunk to basic_stringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_stringstream()</wchar_t></wchar_t,>

vfunc[1]:	virtual thunk to
	basic_stringstream <wchar_t,< th=""></wchar_t,<>
	char_traits <wchar_t>,</wchar_t>
	allocator <wchar_t></wchar_t>
	>::~basic_stringstream()

The VTT for the std::basic\_stringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table 7-55</u>

Table 7-55 VTT for basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

VTT Name	_ZTTSt18basic_stringstreamIwSt11c har_traitsIwESaIwEE
Number of Entries	10

# 7.1.61.2 Interfaces for Class basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_stringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > specified in <a href="Table 7-56">Table 7-56</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-56 libstdcxx - Class basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> > Function Interfaces

non-virtual thunk to basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

non-virtual thunk to basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_stringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::~basic\_stringstream()(GLIBCXX\_3.4) [CXXABI]

# 7.1.62 Class basic\_istringstream<char, char\_traits<char>, allocator<char> >

## 7.1.62.1 Class data for basic\_istringstream<char, char\_traits<char>, allocator<char> >

The virtual table for the std::basic\_istringstream<char, std::char\_traits<char>, std::allocator<char> > class is described by <a href="Table 7-57">Table 7-57</a>

Table 7-57 Primary vtable for basic\_istringstream<char, char\_traits<char>, allocator<char>>

Base Offset	0
Virtual Base Offset	48
RTTI	typeinfo for basic_istringstream <char, char_traits<char="">, allocator<char>&gt;</char></char,>

vfunc[0]:	basic_istringstream <char, char_traits<char>, allocator<char> &gt;::~basic_istringstream()</char></char></char, 
vfunc[1]:	basic_istringstream <char, char_traits<char>, allocator<char> &gt;::~basic_istringstream()</char></char></char, 

Table 7-58 Secondary vtable for basic\_istringstream<char, char\_traits<char>, allocator<char> >

Base Offset	-48
Virtual Base Offset	-48
RTTI	typeinfo for basic_istringstream <char, char_traits<char="">, allocator<char> &gt;</char></char,>
vfunc[0]:	virtual thunk to basic_istringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_istringstream()</char></char,>
vfunc[1]:	virtual thunk to basic_istringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_istringstream()</char></char,>

The VTT for the std::basic\_istringstream<char, std::char\_traits<char>, std::allocator<char> > class is described by <u>Table 7-59</u>

Table 7-59 VTT for basic\_istringstream<char, char\_traits<char>, allocator<char>>

VTT Name	_ZTTSt19basic_istringstreamIcSt11c har_traitsIcESaIcEE
Number of Entries	4

# 7.1.62.2 Interfaces for Class basic\_istringstream<char, char\_traits<char>, allocator<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_istringstream<char, std::char\_traits<char>, std::allocator<char> > specified in <u>Table 7-60</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-60 libstdcxx - Class basic\_istringstream<char, char\_traits<char>, allocator<char> > Function Interfaces

virtual thunk to basic\_istringstream<char, char\_traits<char>, allocator<char>>::-basic\_istringstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_istringstream<char, char\_traits<char>, allocator<char>>::~basic\_istringstream()(GLIBCXX\_3.4) [CXXABI]

# 7.1.63 Class basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

# 7.1.63.1 Class data for basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

The virtual table for the std::basic\_istringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table 7-61</u>

Table 7-61 Primary vtable for basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

Base Offset	0
Virtual Base Offset	48
RTTI	<pre>typeinfo for basic_istringstream<wchar_t, char_traits<wchar_t="">, allocator<wchar_t>&gt;</wchar_t></wchar_t,></pre>
vfunc[0]:	<pre>basic_istringstream<wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_istringstream()</wchar_t></wchar_t,></pre>
vfunc[1]:	<pre>basic_istringstream<wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_istringstream()</wchar_t></wchar_t,></pre>

Table 7-62 Secondary vtable for basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

<del></del>	
Base Offset	-48
Virtual Base Offset	-48
RTTI	<pre>typeinfo for basic_istringstream<wchar_t, char_traits<wchar_t="">, allocator<wchar_t>&gt;</wchar_t></wchar_t,></pre>
vfunc[0]:	virtual thunk to basic_istringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_istringstream()</wchar_t></wchar_t,>
vfunc[1]:	virtual thunk to basic_istringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_istringstream()</wchar_t></wchar_t,>

The VTT for the std::basic\_istringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table 7-63</u>

Table 7-63 VTT for basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

VTT Name	_ZTTSt19basic_istringstreamIwSt11c har_traitsIwESaIwEE
Number of Entries	4

# 7.1.63.2 Interfaces for Class basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_istringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > specified in <u>Table 7-64</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-64 libstdcxx - Class basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> > Function Interfaces

virtual thunk to basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>::~basic\_istringstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_istringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::~basic\_istringstream()(GLIBCXX\_3.4) [CXXABI]

# 7.1.64 Class basic\_ostringstream<char, char\_traits<char>, allocator<char> >

# 7.1.64.1 Class data for basic\_ostringstream<char, char\_traits<char>, allocator<char> >

The virtual table for the std::basic\_ostringstream<char, std::char\_traits<char>, std::allocator<char> > class is described by <u>Table 7-65</u>

Table 7-65 Primary vtable for basic\_ostringstream<char, char\_traits<char>, allocator<char> >

Base Offset	0
Virtual Base Offset	44
RTTI	typeinfo for basic_ostringstream <char, char_traits<char="">, allocator<char>&gt;</char></char,>
vfunc[0]:	basic_ostringstream <char, char_traits<char>, allocator<char> &gt;::~basic_ostringstream()</char></char></char, 
vfunc[1]:	basic_ostringstream <char, char_traits<char>, allocator<char> &gt;::~basic_ostringstream()</char></char></char, 

Table 7-66 Secondary vtable for basic\_ostringstream<char, char\_traits<char>, allocator<char> >

Base Offset	-44
Virtual Base Offset	-44
RTTI	typeinfo for basic_ostringstream <char,< td=""></char,<>

	char_traits <char>, allocator<char>&gt;</char></char>
vfunc[0]:	virtual thunk to basic_ostringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_ostringstream()</char></char,>
vfunc[1]:	virtual thunk to basic_ostringstream <char, char_traits<char="">, allocator<char> &gt;::~basic_ostringstream()</char></char,>

The VTT for the std::basic\_ostringstream<char, std::char\_traits<char>, std::allocator<char> > class is described by <a href="Table 7-67">Table 7-67</a>

Table 7-67 VTT for basic\_ostringstream<char, char\_traits<char>, allocator<char>>

VTT Name	_ZTTSt19basic_ostringstreamIcSt11c har_traitsIcESaIcEE
Number of Entries	4

# 7.1.64.2 Interfaces for Class basic\_ostringstream<char, char\_traits<char>, allocator<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ostringstream<char, std::char\_traits<char>, std::allocator<char> > specified in <a href="Table 7-68">Table 7-68</a>, with the full mandatory functionality as described in the referenced underlying specification.

## Table 7-68 libstdcxx - Class basic\_ostringstream<char, char\_traits<char>, allocator<char> > Function Interfaces

virtual thunk to basic\_ostringstream<char, char\_traits<char>, allocator<char> >::~basic\_ostringstream()(GLIBCXX\_3.4) [CXXABI]
virtual thunk to basic\_ostringstream<char, char\_traits<char>, allocator<char> >::~basic\_ostringstream()(GLIBCXX\_3.4) [CXXABI]

# 7.1.65 Class basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

# 7.1.65.1 Class data for basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

The virtual table for the std::basic\_ostringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table 7-69</u>

Table 7-69 Primary vtable for basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

Base Offset	0
Virtual Base Offset	44
RTTI	typeinfo for basic_ostringstream <wchar_t,< td=""></wchar_t,<>
	char_traits <wchar_t>,</wchar_t>

	allocator <wchar_t>&gt;</wchar_t>
vfunc[0]:	basic_ostringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_ostringstream()</wchar_t></wchar_t,>
vfunc[1]:	basic_ostringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_ostringstream()</wchar_t></wchar_t,>

Table 7-70 Secondary vtable for basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

Base Offset	-44
Virtual Base Offset	-44
RTTI	typeinfo for basic_ostringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;</wchar_t></wchar_t,>
vfunc[0]:	virtual thunk to basic_ostringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_ostringstream()</wchar_t></wchar_t,>
vfunc[1]:	virtual thunk to basic_ostringstream <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_ostringstream()</wchar_t></wchar_t,>

The VTT for the std::basic\_ostringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table 7-71</u>

Table 7-71 VTT for basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

VTT Name	_ZTTSt19basic_ostringstreamIwSt11 char_traitsIwESaIwEE
Number of Entries	4

# 7.1.65.2 Interfaces for Class basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ostringstream<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > specified in <u>Table 7-72</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-72 libstdcxx - Class basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> > Function Interfaces

virtual thunk to basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>,
allocator<wchar\_t> >::~basic\_ostringstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_ostringstream<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >::~basic\_ostringstream()(GLIBCXX\_3.4) [CXXABI]

# 7.1.66 Class basic\_stringbuf<char, char\_traits<char>, allocator<char> >

## 7.1.66.1 Class data for basic\_stringbuf<char, char\_traits<char>, allocator<char> >

The virtual table for the std::basic\_stringbuf<char, std::char\_traits<char>, std::allocator<char> > class is described by <a href="Table 7-73">Table 7-73</a>

Table 7-73 Primary vtable for basic\_stringbuf<char, char\_traits<char>, allocator<char>>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for basic_stringbuf <char, char_traits<char="">, allocator<char> &gt;</char></char,>
vfunc[0]:	<pre>basic_stringbuf<char, char_traits<char="">, allocator<char> &gt;::~basic_stringbuf()</char></char,></pre>
vfunc[1]:	<pre>basic_stringbuf<char, char_traits<char="">, allocator<char> &gt;::~basic_stringbuf()</char></char,></pre>
vfunc[2]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::imbue(locale const&amp;)</char,></pre>
vfunc[3]:	<pre>basic_stringbuf<char, char_traits<char="">, allocator<char> &gt;::setbuf(char*, int)</char></char,></pre>
vfunc[4]:	<pre>basic_stringbuf<char, char_traits<char="">, allocator<char> &gt;::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</char></char,></pre>
vfunc[5]:	<pre>basic_stringbuf<char, char_traits<char="">, allocator<char> &gt;::seekpos(fpos<mbstate_t>,     _Ios_Openmode)</mbstate_t></char></char,></pre>
vfunc[6]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::sync()</char,></pre>
vfunc[7]:	<pre>basic_streambuf<char, char_traits<char="">&gt;::showmanyc()</char,></pre>
vfunc[8]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::xsgetn(char*,   int)</char,></pre>
vfunc[9]:	<pre>basic_stringbuf<char, char_traits<char="">, allocator<char> &gt;::underflow()</char></char,></pre>

vfunc[10]:	basic_streambuf <char, char_traits<char> &gt;::uflow()</char></char, 
vfunc[11]:	basic_stringbuf <char, char_traits<char>, allocator<char> &gt;::pbackfail(int)</char></char></char, 
vfunc[12]:	basic_streambuf <char, char_traits<char> &gt;::xsputn(char const*, int)</char></char, 
vfunc[13]:	basic_stringbuf <char, char_traits<char>, allocator<char> &gt;::overflow(int)</char></char></char, 

The Run Time Type Information for the std::basic\_stringbuf<char, std::char\_traits<char>, std::allocator<char> > class is described by <u>Table 7-74</u>

Table 7-74 typeinfo for basic\_stringbuf<char, char\_traits<char>, allocator<char>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for basic_stringbuf <char, char_traits<char="">, allocator<char>&gt;</char></char,>

# 7.1.66.2 Interfaces for Class basic\_stringbuf<char, char\_traits<char>, allocator<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_stringbuf<char, std::char\_traits<char>, std::allocator<char> > specified in <u>Table 7-75</u>, with the full mandatory functionality as described in the referenced underlying specification.

## Table 7-75 libstdcxx - Class basic\_stringbuf<char, char\_traits<char>, allocator<char> > Function Interfaces

basic\_stringbuf<char, char\_traits<char>, allocator<char> >::setbuf(char\*, int) (GLIBCXX\_3.4) [ISOCXX]

basic\_stringbuf<char, char\_traits<char>, allocator<char> >::\_M\_sync(char\*, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_stringbuf<char, char\_traits<char>, allocator<char> >::seekoff(long long, \_Ios\_Seekdir, \_Ios\_Openmode)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.67 Class basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

# 7.1.67.1 Class data for basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

The virtual table for the std::basic\_stringbuf<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table</u> 7-76

Table 7-76 Primary vtable for basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

Base Offset	0
Virtual Base Offset	0
RTTI	<pre>typeinfo for basic_stringbuf<wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;</wchar_t></wchar_t,></pre>
vfunc[0]:	basic_stringbuf <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_stringbuf()</wchar_t></wchar_t,>
vfunc[1]:	basic_stringbuf <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::~basic_stringbuf()</wchar_t></wchar_t,>
vfunc[2]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::imbue(locale const&amp;)</wchar_t,>
vfunc[3]:	basic_stringbuf <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::setbuf(wchar_t*, int)</wchar_t></wchar_t,>
vfunc[4]:	<pre>basic_stringbuf<wchar_t, char_traits<wchar_t="">,   allocator<wchar_t> &gt;::seekoff(long   long, _Ios_Seekdir, _Ios_Openmode)</wchar_t></wchar_t,></pre>
vfunc[5]:	<pre>basic_stringbuf<wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::seekpos(fpos<mbstate_t>, _Ios_Openmode)</mbstate_t></wchar_t></wchar_t,></pre>
vfunc[6]:	<pre>basic_streambuf<wchar_t, char_traits<wchar_t="">&gt;::sync()</wchar_t,></pre>
vfunc[7]:	<pre>basic_streambuf<wchar_t, char_traits<wchar_t="">   &gt;::showmanyc()</wchar_t,></pre>
vfunc[8]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::xsgetn(wchar_t*, int)</wchar_t,>
vfunc[9]:	basic_stringbuf <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::underflow()</wchar_t></wchar_t,>
vfunc[10]:	<pre>basic_streambuf<wchar_t, char_traits<wchar_t="">&gt;::uflow()</wchar_t,></pre>
vfunc[11]:	basic_stringbuf <wchar_t, char_traits<wchar_t="">, allocator<wchar_t></wchar_t></wchar_t,>

	>::pbackfail(unsigned int)
vfunc[12]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::xsputn(wchar_t const*, int)</wchar_t,>
vfunc[13]:	basic_stringbuf <wchar_t, char_traits<wchar_t="">, allocator<wchar_t> &gt;::overflow(unsigned int)</wchar_t></wchar_t,>

The Run Time Type Information for the std::basic\_stringbuf<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > class is described by <u>Table</u> 7-77

Table 7-77 typeinfo for basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for basic_stringbuf <wchar_t, char_traits<wchar_t="">, allocator<wchar_t>&gt;</wchar_t></wchar_t,>

# 7.1.67.2 Interfaces for Class basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_stringbuf<wchar\_t, std::char\_traits<wchar\_t>, std::allocator<wchar\_t> > specified in <u>Table 7-78</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-78 libstdcxx - Class basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t> > Function Interfaces

basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::setbuf(wchar\_t\*, int)(GLIBCXX\_3.4) [ISOCXX]

basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::\_M\_sync(wchar\_t\*, unsigned int, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

basic\_stringbuf<wchar\_t, char\_traits<wchar\_t>, allocator<wchar\_t>
>::seekoff(long long, \_Ios\_Seekdir, \_Ios\_Openmode)(GLIBCXX\_3.4)
[ISOCXX]

# 7.1.68 Class basic\_iostream<char, char\_traits<char>

#### 7.1.68.1 Class data for basic\_iostream<char, char\_traits<char> >

The virtual table for the std::basic\_iostream<char, std::char\_traits<char> > class is described by <a href="Table 7-79">Table 7-79</a>

Table 7-79 Primary vtable for basic\_iostream<char, char\_traits<char>>

Base Offset	0
Virtual Base Offset	12

RTTI	typeinfo for basic_iostream <char, char_traits<char=""> &gt;</char,>
vfunc[0]:	basic_iostream <char, char_traits<char> &gt;::~basic_iostream()</char></char, 
vfunc[1]:	basic_iostream <char, char_traits<char> &gt;::~basic_iostream()</char></char, 

Table 7-80 Secondary vtable for basic\_iostream<char, char\_traits<char>>

Base Offset	-8
Virtual Base Offset	4
RTTI	typeinfo for basic_iostream <char, char_traits<char=""> &gt;</char,>
vfunc[0]:	non-virtual thunk to basic_iostream <char, char_traits<char=""> &gt;::~basic_iostream()</char,>
vfunc[1]:	non-virtual thunk to basic_iostream <char, char_traits<char=""> &gt;::~basic_iostream()</char,>

Table 7-81 Secondary vtable for basic\_iostream<char, char\_traits<char>>

Base Offset	-12
Virtual Base Offset	-12
RTTI	<pre>typeinfo for basic_iostream<char, char_traits<char=""> &gt;</char,></pre>
vfunc[0]:	virtual thunk to basic_iostream <char, char_traits<char=""> &gt;::~basic_iostream()</char,>
vfunc[1]:	virtual thunk to basic_iostream <char, char_traits<char=""> &gt;::~basic_iostream()</char,>

The VTT for the std::basic\_iostream<char, std::char\_traits<char> > class is described by <a href="Table 7-82">Table 7-82</a>

Table 7-82 VTT for basic\_iostream<char, char\_traits<char> >

VTT Name	_ZTTSd
Number of Entries	7

# 7.1.68.2 Interfaces for Class basic\_iostream<char, char\_traits<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_iostream<char, std::char\_traits<char> > specified

in <u>Table 7-83</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-83 libstdcxx - Class basic\_iostream<char, char\_traits<char> > Function Interfaces

non-virtual thunk to basic\_iostream<char, char\_traits<char>>::~basic\_iostream()(GLIBCXX\_3.4) [CXXABI]

non-virtual thunk to basic\_iostream<char, char\_traits<char>
>::~basic\_iostream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_iostream<char, char\_traits<char> >::~basic\_iostream()
(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_iostream<char, char\_traits<char> >::~basic\_iostream()
(GLIBCXX\_3.4) [CXXABI]

# 7.1.69 Class basic\_iostream<wchar\_t, char\_traits<wchar\_t> >

# 7.1.69.1 Class data for basic\_iostream<wchar\_t, char traits<wchar t> >

The virtual table for the std::basic\_iostream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <a href="Table 7-84">Table 7-84</a>

Table 7-84 Primary vtable for basic\_iostream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	0
Virtual Base Offset	12
RTTI	typeinfo for basic_iostream <wchar_t, char_traits<wchar_t="">&gt;</wchar_t,>
vfunc[0]:	basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()</wchar_t,>
vfunc[1]:	basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()</wchar_t,>

Table 7-85 Secondary vtable for basic\_iostream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	-8
Virtual Base Offset	4
RTTI	typeinfo for basic_iostream <wchar_t, char_traits<wchar_t="">&gt;</wchar_t,>
vfunc[0]:	non-virtual thunk to basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()</wchar_t,>
vfunc[1]:	non-virtual thunk to basic_iostream <wchar_t,< td=""></wchar_t,<>

1 ( ) 1 (
char_traits <wchar_t></wchar_t>
>::~basic_iostream()

Table 7-86 Secondary vtable for basic\_iostream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	-12
Virtual Base Offset	-12
RTTI	typeinfo for basic_iostream <wchar_t, char_traits<wchar_t="">&gt;</wchar_t,>
vfunc[0]:	virtual thunk to basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()</wchar_t,>
vfunc[1]:	virtual thunk to basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()</wchar_t,>

The VTT for the std::basic\_iostream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-87</u>

Table 7-87 VTT for basic\_iostream<wchar\_t, char\_traits<wchar\_t>>

VTT Name	_ZTTSt14basic_iostreamIwSt11char_ traitsIwEE
Number of Entries	7

# 7.1.69.2 Interfaces for Class basic\_iostream<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_iostream<wchar\_t, std::char\_traits<wchar\_t> > specified in <a href="Table 7-88">Table 7-88</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-88 libstdcxx - Class basic\_iostream<wchar\_t, char\_traits<wchar\_t> > Function Interfaces

non-virtual thunk to basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()(GLIBCXX_3.4) [CXXABI]</wchar_t,>	
non-virtual thunk to basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()(GLIBCXX_3.4) [CXXABI]</wchar_t,>	
virtual thunk to basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()(GLIBCXX_3.4) [CXXABI]</wchar_t,>	
virtual thunk to basic_iostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_iostream()(GLIBCXX_3.4) [CXXABI]</wchar_t,>	

### 7.1.70 Class basic\_istream<char, char\_traits<char> >

#### 7.1.70.1 Class data for basic\_istream<char, char\_traits<char> >

The virtual table for the std::basic\_istream<char, std::char\_traits<char> > class is

described by Table 7-89

Table 7-89 Primary vtable for basic\_istream<char, char\_traits<char>>

Base Offset	0
Virtual Base Offset	8
RTTI	typeinfo for basic_istream <char, char_traits<char="">&gt;</char,>
vfunc[0]:	<pre>basic_istream<char, char_traits<char="">&gt;::~basic_istream()</char,></pre>
vfunc[1]:	<pre>basic_istream<char, char_traits<char="">&gt;::~basic_istream()</char,></pre>

Table 7-90 Secondary vtable for basic\_istream<char, char\_traits<char>>

Base Offset	-8
Virtual Base Offset	-8
RTTI	typeinfo for basic_istream <char, char_traits<char=""> &gt;</char,>
vfunc[0]:	virtual thunk to basic_istream <char, char_traits<char=""> &gt;::~basic_istream()</char,>
vfunc[1]:	virtual thunk to basic_istream <char, char_traits<char=""> &gt;::~basic_istream()</char,>

The VTT for the std::basic\_istream<char, std::char\_traits<char> > class is described by <a href="Table 7-91">Table 7-91</a>

Table 7-91 VTT for basic\_istream<char, char\_traits<char>>

VTT Name	_ZTTSi
Number of Entries	2

# 7.1.70.2 Interfaces for Class basic\_istream<char, char\_traits<char>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_istream<char, std::char\_traits<char> > specified in Table 7-92, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-92 libstdcxx - Class basic\_istream<char, char\_traits<char> > Function Interfaces

basic_istream <char, char_traits<char=""> &gt;::get(char*, int)(GLIBCXX_3.4) [ISOCXX]</char,>
basic_istream <char, char_traits<char=""> &gt;::get(char*, int, char)(GLIBCXX_3.4) [ISOCXX]</char,>
basic_istream <char, char_traits<char=""> &gt;::read(char*, int)(GLIBCXX_3.4) [ISOCXX]</char,>
basic_istream <char, char_traits<char=""> &gt;::seekg(long long, _Ios_Seekdir) (GLIBCXX_3.4) [ISOCXX]</char,>
basic_istream <char, char_traits<char=""> &gt;::ignore(int)(GLIBCXX_3.4.5) [ISOCXX]</char,>

basic\_istream<char, char\_traits<char> >::ignore(int, int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_istream<char, char\_traits<char>>::getline(char\*, int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_istream<char, char\_traits<char>>::getline(char\*, int, char)
(GLIBCXX\_3.4) [ISOCXX]

basic\_istream<char, char\_traits<char>>::readsome(char\*, int)(GLIBCXX\_3.4)
[ISOCXX]

virtual thunk to basic\_istream<char, char\_traits<char> >::~basic\_istream()
(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_istream<char, char\_traits<char>>::~basic\_istream() (GLIBCXX\_3.4) [CXXABI]

# 7.1.71 Class basic\_istream<wchar\_t, char\_traits<wchar\_t> >

# 7.1.71.1 Class data for basic\_istream<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the std::basic\_istream<wchar\_t, std::char\_traits<wchar\_t>> class is described by <u>Table 7-93</u>

Table 7-93 Primary vtable for basic\_istream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	0
Virtual Base Offset	8
RTTI	<pre>typeinfo for basic_istream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	basic_istream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_istream()</wchar_t,>
vfunc[1]:	basic_istream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_istream()</wchar_t,>

Table 7-94 Secondary vtable for basic\_istream<wchar\_t, char\_traits<wchar\_t>

Base Offset	-8
Virtual Base Offset	-8
RTTI	<pre>typeinfo for basic_istream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	<pre>virtual thunk to basic_istream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_istream()</wchar_t,></pre>
vfunc[1]:	<pre>virtual thunk to basic_istream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_istream()</wchar_t,></pre>

The VTT for the std::basic\_istream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-95</u>

Table 7-95 VTT for basic\_istream<wchar\_t, char\_traits<wchar\_t>>

VTT Name	_ZTTSt13basic_istreamIwSt11char_tr aitsIwEE
Number of Entries	2

# 7.1.71.2 Interfaces for Class basic\_istream<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_istream<wchar\_t, std::char\_traits<wchar\_t>> specified in Table 7-96, with the full mandatory functionality as described in the referenced underlying specification.

## Table 7-96 libstdcxx - Class basic\_istream<wchar\_t, char\_traits<wchar\_t> > Function Interfaces

basic\_istream<wchar\_t, char\_traits<wchar\_t> >::get(wchar\_t\*, int) (GLIBCXX\_3.4) [ISOCXX] basic\_istream<wchar\_t, char\_traits<wchar\_t>>::get(wchar\_t\*, int, wchar\_t) (GLIBCXX\_3.4) [ISOCXX] basic\_istream<wchar\_t, char\_traits<wchar\_t> >::read(wchar\_t\*, int) (GLIBCXX\_3.4) [ISOCXX] basic\_istream<wchar\_t, char\_traits<wchar\_t> >::ignore(int)(GLIBCXX\_3.4.5) [ISOCXX] basic\_istream<wchar\_t, char\_traits<wchar\_t> >::ignore(int, unsigned int) (GLIBCXX\_3.4) [ISOCXX] basic\_istream<wchar\_t, char\_traits<wchar\_t> >::getline(wchar\_t\*, int) (GLIBCXX\_3.4) [ISOCXX] basic\_istream<wchar\_t, char\_traits<wchar\_t>>::getline(wchar\_t\*, int, wchar\_t)(GLIBCXX\_3.4) [ISOCXX]  $basic\_istream < wchar\_t, char\_traits < wchar\_t > ::: readsome(wchar\_t^*, int)$ (GLIBCXX\_3.4) [ISOCXX] virtual thunk to basic\_istream<wchar\_t, char\_traits<wchar\_t> >::~basic\_istream()(GLIBCXX\_3.4) [CXXABI] virtual thunk to basic\_istream<wchar\_t, char\_traits<wchar\_t> >::~basic\_istream()(GLIBCXX\_3.4) [CXXABI]

# 7.1.72 Class istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

# 7.1.72.1 Interfaces for Class istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

No external methods are defined for libstdcxx - Class std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > in this part of the specification. See also the generic specification.

## 7.1.73 Class istreambuf\_iterator<char, char traits<char> >

## 7.1.73.1 Interfaces for Class istreambuf\_iterator<char, char\_traits<char> >

No external methods are defined for libstdcxx - Class std::istreambuf\_iterator<char, std::char\_traits<char> > in this part of the specification. See also the generic specification.

## 7.1.74 Class basic\_ostream<char, char\_traits<char>

#### 7.1.74.1 Class data for basic\_ostream<char, char\_traits<char> >

The virtual table for the std::basic\_ostream<char, std::char\_traits<char> > class is described by <a href="Table 7-97">Table 7-97</a>

Table 7-97 Primary vtable for basic\_ostream<char, char\_traits<char>>

	, =
Base Offset	0
Virtual Base Offset	4
RTTI	<pre>typeinfo for basic_ostream<char, char_traits<char="">&gt;</char,></pre>
vfunc[0]:	basic_ostream <char, char_traits<char> &gt;::~basic_ostream()</char></char, 
vfunc[1]:	basic_ostream <char, char_traits<char> &gt;::~basic_ostream()</char></char, 

Table 7-98 Secondary vtable for basic\_ostream<char, char\_traits<char>>

<b>,</b>	
Base Offset	-4
Virtual Base Offset	-4
RTTI	typeinfo for basic_ostream <char, char_traits<char="">&gt;</char,>
vfunc[0]:	virtual thunk to basic_ostream <char, char_traits<char=""> &gt;::~basic_ostream()</char,>
vfunc[1]:	virtual thunk to basic_ostream <char, char_traits<char=""> &gt;::~basic_ostream()</char,>

The VTT for the std::basic\_ostream<char, std::char\_traits<char> > class is described by Table 7-99

Table 7-99 VTT for basic\_ostream<char, char\_traits<char>>

VTT Name	_ZTTSo
Number of Entries	2

### 7.1.74.2 Interfaces for Class basic\_ostream<char, char\_traits<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ostream<char, std::char\_traits<char> > specified in Table 7-100, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-100 libstdcxx - Class basic\_ostream<char, char\_traits<char> > Function Interfaces

basic\_ostream<char, char\_traits<char> >::seekp(long long, \_Ios\_Seekdir) (GLIBCXX\_3.4) [ISOCXX]

basic\_ostream<char, char\_traits<char> >::write(char const\*, int)
(GLIBCXX\_3.4) [ISOCXX]

basic\_ostream<char, char\_traits<char>>::\_M\_write(char const\*, int)
(GLIBCXX\_3.4) [ISOCXX]

virtual thunk to basic\_ostream<char, char\_traits<char> >::~basic\_ostream()
(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_ostream<char, char\_traits<char> >::~basic\_ostream()
(GLIBCXX\_3.4) [CXXABI]

## 7.1.75 Class basic\_ostream<wchar\_t, char\_traits<wchar\_t> >

### 7.1.75.1 Class data for basic\_ostream<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the std::basic\_ostream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-101</u>

Table 7-101 Primary vtable for basic\_ostream<wchar\_t, char\_traits<wchar\_t>

Base Offset	0
Virtual Base Offset	4
RTTI	<pre>typeinfo for basic_ostream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	basic_ostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ostream()</wchar_t,>
vfunc[1]:	basic_ostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ostream()</wchar_t,>

Table 7-102 Secondary vtable for basic\_ostream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	-4
Virtual Base Offset	-4
RTTI	<pre>typeinfo for basic_ostream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>

vfunc[0]:	virtual thunk to basic_ostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ostream()</wchar_t,>
vfunc[1]:	virtual thunk to basic_ostream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ostream()</wchar_t,>

The VTT for the std::basic\_ostream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-103</u>

Table 7-103 VTT for basic\_ostream<wchar\_t, char\_traits<wchar\_t>>

VTT Name	_ZTTSt13basic_ostreamIwSt11char_t raitsIwEE
Number of Entries	2

## 7.1.75.2 Interfaces for Class basic\_ostream<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ostream<wchar\_t, std::char\_traits<wchar\_t> > specified in <a href="Table 7-104">Table 7-104</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-104 libstdcxx - Class basic\_ostream<wchar\_t, char\_traits<wchar\_t>> Function Interfaces

basic_ostream <wchar_t, char_traits<wchar_t=""> &gt;::write(wchar_t const*, int) (GLIBCXX_3.4) [ISOCXX]</wchar_t,>
<pre>virtual thunk to basic_ostream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_ostream()(GLIBCXX_3.4) [CXXABI]</wchar_t,></pre>
<pre>virtual thunk to basic_ostream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_ostream()(GLIBCXX_3.4) [CXXABI]</wchar_t,></pre>

### 7.1.76 Class basic\_fstream<char, char\_traits<char> >

#### 7.1.76.1 Class data for basic\_fstream<char, char\_traits<char> >

The virtual table for the std::basic\_fstream<char, std::char\_traits<char> > class is described by  $\underline{\text{Table 7-105}}$ 

Table 7-105 Primary vtable for basic\_fstream<char, char\_traits<char>>

Base Offset	0
Virtual Base Offset	148
RTTI	typeinfo for basic_fstream <char, char_traits<char=""> &gt;</char,>
vfunc[0]:	basic_fstream <char, char_traits<char> &gt;::~basic_fstream()</char></char, 
vfunc[1]:	basic_fstream <char, char_traits<char></char></char, 

	>::~basic_fstream()
--	---------------------

Table 7-106 Secondary vtable for basic\_fstream<char, char\_traits<char>>

Base Offset	-8
Virtual Base Offset	140
RTTI	typeinfo for basic_fstream <char, char_traits<char="">&gt;</char,>
vfunc[0]:	non-virtual thunk to basic_fstream <char, char_traits<char> &gt;::~basic_fstream()</char></char, 
vfunc[1]:	non-virtual thunk to basic_fstream <char, char_traits<char=""> &gt;::~basic_fstream()</char,>

Table 7-107 Secondary vtable for basic\_fstream<char, char\_traits<char>>

Base Offset	-148
Virtual Base Offset	-148
RTTI	typeinfo for basic_fstream <char, char_traits<char=""> &gt;</char,>
vfunc[0]:	virtual thunk to basic_fstream <char, char_traits<char> &gt;::~basic_fstream()</char></char, 
vfunc[1]:	virtual thunk to basic_fstream <char, char_traits<char> &gt;::~basic_fstream()</char></char, 

The VTT for the std::basic\_fstream<char, std::char\_traits<char> > class is described by <a href="Table 7-108">Table 7-108</a>

Table 7-108 VTT for basic\_fstream<char, char\_traits<char>>

VTT Name	_ZTTSt13basic_fstreamIcSt11char_tr aitsIcEE
Number of Entries	10

### 7.1.76.2 Interfaces for Class basic\_fstream<char, char\_traits<char>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_fstream<char, std::char\_traits<char> > specified in Table 7-109, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-109 libstdcxx - Class basic\_fstream<char, char\_traits<char> > Function Interfaces

non-virtual thunk to basic_fstream <char, char_traits<char=""></char,>	
>::~basic_fstream()(GLIBCXX_3.4) [CXXABI]	
non-virtual thunk to basic_fstream <char, char_traits<char=""></char,>	

#### >::~basic\_fstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_fstream<char, char\_traits<char>>::~basic\_fstream() (GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_fstream<char, char\_traits<char> >::~basic\_fstream() (GLIBCXX\_3.4) [CXXABI]

## 7.1.77 Class basic\_fstream<wchar\_t, char\_traits<wchar\_t>>

### 7.1.77.1 Class data for basic\_fstream<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the std::basic\_fstream<wchar\_t, std::char\_traits<wchar\_t>> class is described by <u>Table 7-110</u>

Table 7-110 Primary vtable for basic\_fstream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	0
Virtual Base Offset	152
RTTI	<pre>typeinfo for basic_fstream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()</wchar_t,>
vfunc[1]:	basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()</wchar_t,>

Table 7-111 Secondary vtable for basic\_fstream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	-8
Virtual Base Offset	144
RTTI	<pre>typeinfo for basic_fstream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	non-virtual thunk to basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()</wchar_t,>
vfunc[1]:	non-virtual thunk to basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()</wchar_t,>

Table 7-112 Secondary vtable for basic\_fstream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	-152
Virtual Base Offset	-152
RTTI	<pre>typeinfo for basic_fstream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>

vfunc[0]:	virtual thunk to basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()</wchar_t,>
vfunc[1]:	virtual thunk to basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()</wchar_t,>

The VTT for the std::basic\_fstream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-113</u>

Table 7-113 VTT for basic\_fstream<wchar\_t, char\_traits<wchar\_t>>

VTT Name	_ZTTSt13basic_fstreamIwSt11char_tr aitsIwEE
Number of Entries	10

### 7.1.77.2 Interfaces for Class basic\_fstream<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_fstream<wchar\_t, std::char\_traits<wchar\_t> > specified in <a href="Table 7-114">Table 7-114</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-114 libstdcxx - Class basic\_fstream<wchar\_t, char\_traits<wchar\_t> > Function Interfaces

non-virtual thunk to basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()(GLIBCXX_3.4) [CXXABI]</wchar_t,>	
non-virtual thunk to basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()(GLIBCXX_3.4) [CXXABI]</wchar_t,>	
virtual thunk to basic_fstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()(GLIBCXX_3.4) [CXXABI]</wchar_t,>	
<pre>virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_fstream()(GLIBCXX_3.4) [CXXABI]</wchar_t,></pre>	

## 7.1.78 Class basic\_ifstream<char, char\_traits<char>

#### 7.1.78.1 Class data for basic\_ifstream<char, char\_traits<char> >

The virtual table for the std::basic\_ifstream<char, std::char\_traits<char> > class is described by <a href="Table 7-115">Table 7-115</a>

Table 7-115 Primary vtable for basic\_ifstream<char, char\_traits<char>>

Base Offset	0
Virtual Base Offset	144
RTTI	typeinfo for basic_ifstream <char, char_traits<char="">&gt;</char,>
vfunc[0]:	basic_ifstream <char,< td=""></char,<>

	char_traits <char> &gt;::~basic_ifstream()</char>
vfunc[1]:	basic_ifstream <char, char_traits<char> &gt;::~basic_ifstream()</char></char, 

Table 7-116 Secondary vtable for basic\_ifstream<char, char\_traits<char>>

Base Offset	-144
Virtual Base Offset	-144
RTTI	<pre>typeinfo for basic_ifstream<char, char_traits<char="">&gt;</char,></pre>
vfunc[0]:	virtual thunk to basic_ifstream <char, char_traits<char=""> &gt;::~basic_ifstream()</char,>
vfunc[1]:	virtual thunk to basic_ifstream <char, char_traits<char=""> &gt;::~basic_ifstream()</char,>

The VTT for the std::basic\_ifstream<char, std::char\_traits<char> > class is described by <a href="Table 7-117">Table 7-117</a>

Table 7-117 VTT for basic\_ifstream<char, char\_traits<char>>

VTT Name	_ZTTSt14basic_ifstreamIcSt11char_tr aitsIcEE
Number of Entries	4

### 7.1.78.2 Interfaces for Class basic\_ifstream<char, char\_traits<char>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ifstream<char, std::char\_traits<char> > specified in Table 7-118, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-118 libstdcxx - Class basic\_ifstream<char, char\_traits<char> > Function Interfaces

virtual thunk to basic\_ifstream<char, char\_traits<char> >::~basic\_ifstream()
(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_ifstream<char, char\_traits<char> >::~basic\_ifstream()
(GLIBCXX\_3.4) [CXXABI]

## 7.1.79 Class basic\_ifstream<wchar\_t, char traits<wchar t> >

### 7.1.79.1 Class data for basic\_ifstream<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the std::basic\_ifstream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-119</u>

Table 7-119 Primary vtable for basic\_ifstream<wchar\_t, char\_traits<wchar\_t>

Base Offset	0
Virtual Base Offset	148
RTTI	<pre>typeinfo for basic_ifstream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	basic_ifstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ifstream()</wchar_t,>
vfunc[1]:	basic_ifstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ifstream()</wchar_t,>

Table 7-120 Secondary vtable for basic\_ifstream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	-148
Virtual Base Offset	-148
RTTI	<pre>typeinfo for basic_ifstream<wchar_t, char_traits<wchar_t=""> &gt;</wchar_t,></pre>
vfunc[0]:	virtual thunk to basic_ifstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ifstream()</wchar_t,>
vfunc[1]:	virtual thunk to basic_ifstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ifstream()</wchar_t,>

The VTT for the std::basic\_ifstream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <a href="Table 7-121">Table 7-121</a>

Table 7-121 VTT for basic\_ifstream<wchar\_t, char\_traits<wchar\_t>>

VTT Name	_ZTTSt14basic_ifstreamIwSt11char_t raitsIwEE
Number of Entries	4

## 7.1.79.2 Interfaces for Class basic\_ifstream<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ifstream<wchar\_t, std::char\_traits<wchar\_t> > specified in <a href="Table 7-122">Table 7-122</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-122 libstdcxx - Class basic\_ifstream<wchar\_t, char\_traits<wchar\_t>> Function Interfaces

<pre>virtual thunk to basic_ifstream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_ifstream()(GLIBCXX_3.4) [CXXABI]</wchar_t,></pre>	
virtual thunk to basic_ifstream <wchar_t, char_traits<wchar_t=""></wchar_t,>	

## 7.1.80 Class basic\_ofstream<char, char\_traits<char>

#### 7.1.80.1 Class data for basic\_ofstream<char, char\_traits<char> >

The virtual table for the std::basic\_ofstream<char, std::char\_traits<char> > class is described by <a href="Table 7-123">Table 7-123</a>

Table 7-123 Primary vtable for basic\_ofstream<char, char\_traits<char>>

	· —
Base Offset	0
Virtual Base Offset	140
RTTI	<pre>typeinfo for basic_ofstream<char, char_traits<char=""> &gt;</char,></pre>
vfunc[0]:	basic_ofstream <char, char_traits<char> &gt;::~basic_ofstream()</char></char, 
vfunc[1]:	basic_ofstream <char, char_traits<char> &gt;::~basic_ofstream()</char></char, 

Table 7-124 Secondary vtable for basic\_ofstream<char, char\_traits<char>>

	_orstream ventar, enar_trants ventar,
Base Offset	-140
Virtual Base Offset	-140
RTTI	typeinfo for basic_ofstream <char, char_traits<char="">&gt;</char,>
vfunc[0]:	virtual thunk to basic_ofstream <char, char_traits<char=""> &gt;::~basic_ofstream()</char,>
vfunc[1]:	virtual thunk to basic_ofstream <char, char_traits<char=""> &gt;::~basic_ofstream()</char,>

The VTT for the std::basic\_ofstream<char, std::char\_traits<char> > class is described by <a href="Table 7-125">Table 7-125</a>

Table 7-125 VTT for basic\_ofstream<char, char\_traits<char>>

VTT Name	_ZTTSt14basic_ofstreamIcSt11char_t raitsIcEE
Number of Entries	4

### 7.1.80.2 Interfaces for Class basic\_ofstream<char, char\_traits<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ofstream<char, std::char\_traits<char> > specified in Table 7-126, with the full mandatory functionality as described in the refer-

enced underlying specification.

Table 7-126 libstdcxx - Class basic\_ofstream<char, char\_traits<char> > Function Interfaces

virtual thunk to basic\_ofstream<char, char\_traits<char> >::~basic\_ofstream()
(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_ofstream<char, char\_traits<char> >::~basic\_ofstream()
(GLIBCXX\_3.4) [CXXABI]

## 7.1.81 Class basic\_ofstream<wchar\_t, char\_traits<wchar\_t> >

### 7.1.81.1 Class data for basic\_ofstream<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the std::basic\_ofstream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <a href="Table 7-127">Table 7-127</a>

Table 7-127 Primary vtable for basic\_ofstream<wchar\_t, char\_traits<wchar\_t>

<u></u>	
Base Offset	0
Virtual Base Offset	144
RTTI	<pre>typeinfo for basic_ofstream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	<pre>basic_ofstream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_ofstream()</wchar_t,></pre>
vfunc[1]:	<pre>basic_ofstream<wchar_t, char_traits<wchar_t=""> &gt;::~basic_ofstream()</wchar_t,></pre>

Table 7-128 Secondary vtable for basic\_ofstream<wchar\_t, char\_traits<wchar\_t>>

Base Offset	-144
Virtual Base Offset	-144
RTTI	<pre>typeinfo for basic_ofstream<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>
vfunc[0]:	virtual thunk to basic_ofstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ofstream()</wchar_t,>
vfunc[1]:	virtual thunk to basic_ofstream <wchar_t, char_traits<wchar_t=""> &gt;::~basic_ofstream()</wchar_t,>

The VTT for the std::basic\_ofstream<wchar\_t, std::char\_traits<wchar\_t> > class is described by <a href="Table 7-129">Table 7-129</a>

Table 7-129 VTT for basic\_ofstream<wchar\_t, char\_traits<wchar\_t>>

VTT Name	_ZTTSt14basic_ofstreamIwSt11char_ traitsIwEE
Number of Entries	4

### 7.1.81.2 Interfaces for Class basic\_ofstream<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_ofstream<wchar\_t, std::char\_traits<wchar\_t> > specified in <a href="Table 7-130">Table 7-130</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-130 libstdcxx - Class basic\_ofstream<wchar\_t, char\_traits<wchar\_t>> Function Interfaces

virtual thunk to basic\_ofstream<wchar\_t, char\_traits<wchar\_t>
>::~basic\_ofstream()(GLIBCXX\_3.4) [CXXABI]

virtual thunk to basic\_ofstream<wchar\_t, char\_traits<wchar\_t>
>::~basic\_ofstream()(GLIBCXX\_3.4) [CXXABI]

## 7.1.82 Class basic\_streambuf<char, char\_traits<char> >

#### 7.1.82.1 Class data for basic\_streambuf<char, char\_traits<char>>

The virtual table for the std::basic\_streambuf<char, std::char\_traits<char> > class is described by <a href="Table 7-131">Table 7-131</a>

Table 7-131 Primary vtable for basic\_streambuf<char, char\_traits<char>>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for basic_streambuf <char, char_traits<char=""> &gt;</char,>
vfunc[0]:	basic_streambuf <char, char_traits<char> &gt;::~basic_streambuf()</char></char, 
vfunc[1]:	basic_streambuf <char, char_traits<char> &gt;::~basic_streambuf()</char></char, 
vfunc[2]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::imbue(locale const&amp;)</char,></pre>
vfunc[3]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::setbuf(char*,   int)</char,></pre>
vfunc[4]:	basic_streambuf <char, char_traits<char>&gt;::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</char></char, 
vfunc[5]:	basic_streambuf <char, char_traits<char></char></char, 

	>::seekpos(fpos <mbstate_t>, _Ios_Openmode)</mbstate_t>
vfunc[6]:	basic_streambuf <char, char_traits<char> &gt;::sync()</char></char, 
vfunc[7]:	basic_streambuf <char, char_traits<char> &gt;::showmanyc()</char></char, 
vfunc[8]:	<pre>basic_streambuf<char, char_traits<char="">&gt;::xsgetn(char*, int)</char,></pre>
vfunc[9]:	basic_streambuf <char, char_traits<char> &gt;::underflow()</char></char, 
vfunc[10]:	basic_streambuf <char, char_traits<char> &gt;::uflow()</char></char, 
vfunc[11]:	basic_streambuf <char, char_traits<char> &gt;::pbackfail(int)</char></char, 
vfunc[12]:	basic_streambuf <char, char_traits<char>&gt;::xsputn(char const*, int)</char></char, 
vfunc[13]:	basic_streambuf <char, char_traits<char> &gt;::overflow(int)</char></char, 

The Run Time Type Information for the std::basic\_streambuf<char, std::char\_traits<char> > class is described by <a href="Table 7-132">Table 7-132</a>

Table 7-132 typeinfo for basic\_streambuf<char, char\_traits<char>>

Base Vtable	vtable for cxxabiv1::class_type_info
Name	typeinfo name for basic_streambuf <char, char_traits<char=""> &gt;</char,>

### 7.1.82.2 Interfaces for Class basic\_streambuf<char, char\_traits<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_streambuf<char, std::char\_traits<char> > specified in Table 7-133, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-133 libstdcxx - Class basic\_streambuf<char, char\_traits<char> > Function Interfaces

basic_streambuf <char, char_traits<char=""> &gt;::pubseekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</char,>	
basic_streambuf <char, char_traits<char=""> &gt;::sgetn(char*, int)(GLIBCXX_3.4) [ISOCXX]</char,>	
basic_streambuf <char, char_traits<char=""> &gt;::sputn(char const*, int) (GLIBCXX_3.4) [ISOCXX]</char,>	
basic_streambuf <char, char_traits<char=""> &gt;::setbuf(char*, int)(GLIBCXX_3.4) [ISOCXX]</char,>	

basic\_streambuf<char, char\_traits<char>>::xsgetn(char\*, int)(GLIBCXX\_3.4)
[ISOCXX]

basic\_streambuf<char, char\_traits<char> >::xsputn(char const\*, int)
(GLIBCXX\_3.4) [ISOCXX]

basic\_streambuf<char, char\_traits<char> >::seekoff(long long, \_Ios\_Seekdir, \_Ios\_Openmode)(GLIBCXX\_3.4) [ISOCXX]

basic\_streambuf<char, char\_traits<char> >::pubsetbuf(char\*, int)
(GLIBCXX\_3.4) [ISOCXX]

## 7.1.83 Class basic\_streambuf<wchar\_t, char\_traits<wchar\_t>>

## 7.1.83.1 Class data for basic\_streambuf<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the std::basic\_streambuf<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-134</u>

Table 7-134 Primary vtable for basic\_streambuf<wchar\_t, char\_traits<wchar\_t>>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for basic_streambuf <wchar_t, char_traits<wchar_t="">&gt;</wchar_t,>
vfunc[0]:	<pre>basic_streambuf<wchar_t, char_traits<wchar_t=""> &gt;::~basic_streambuf()</wchar_t,></pre>
vfunc[1]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::~basic_streambuf()</wchar_t,>
vfunc[2]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::imbue(locale const&amp;)</wchar_t,>
vfunc[3]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::setbuf(wchar_t*, int)</wchar_t,>
vfunc[4]:	<pre>basic_streambuf<wchar_t, char_traits<wchar_t="">&gt;::seekoff(long long,_Ios_Seekdir,_Ios_Openmode)</wchar_t,></pre>
vfunc[5]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::seekpos(fpos<mbstate_t>, _Ios_Openmode)</mbstate_t></wchar_t,>
vfunc[6]:	basic_streambuf <wchar_t, char_traits<wchar_t="">&gt;::sync()</wchar_t,>
vfunc[7]:	basic_streambuf <wchar_t, char_traits<wchar_t=""></wchar_t,>

	>::showmanyc()
vfunc[8]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::xsgetn(wchar_t*, int)</wchar_t,>
vfunc[9]:	basic_streambuf <wchar_t, char_traits<wchar_t="">&gt;::underflow()</wchar_t,>
vfunc[10]:	basic_streambuf <wchar_t, char_traits<wchar_t="">&gt;::uflow()</wchar_t,>
vfunc[11]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::pbackfail(unsigned int)</wchar_t,>
vfunc[12]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::xsputn(wchar_t const*, int)</wchar_t,>
vfunc[13]:	basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::overflow(unsigned int)</wchar_t,>

The Run Time Type Information for the std::basic\_streambuf<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-135</u>

Table 7-135 typeinfo for basic\_streambuf<wchar\_t, char\_traits<wchar\_t>>

Base Vtable	vtable for cxxabiv1::class_type_info
Name	typeinfo name for basic_streambuf <wchar_t, char_traits<wchar_t="">&gt;</wchar_t,>

### 7.1.83.2 Interfaces for Class basic\_streambuf<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_streambuf<wchar\_t, std::char\_traits<wchar\_t> > specified in Table 7-136, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-136 libstdcxx - Class basic\_streambuf<wchar\_t, char\_traits<wchar\_t> > Function Interfaces

basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::pubseekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</wchar_t,>	
basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::sgetn(wchar_t*, int) (GLIBCXX_3.4) [ISOCXX]</wchar_t,>	
basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::sputn(wchar_t const*, int) (GLIBCXX_3.4) [ISOCXX]</wchar_t,>	
basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::setbuf(wchar_t*, int) (GLIBCXX_3.4) [ISOCXX]</wchar_t,>	
basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::xsgetn(wchar_t*, int) (GLIBCXX_3.4) [ISOCXX]</wchar_t,>	
basic_streambuf <wchar_t, char_traits<wchar_t=""> &gt;::xsputn(wchar_t const*,</wchar_t,>	

#### int)(GLIBCXX\_3.4) [ISOCXX]

basic\_streambuf<wchar\_t, char\_traits<wchar\_t> >::seekoff(long long,
 \_Ios\_Seekdir, \_Ios\_Openmode)(GLIBCXX\_3.4) [ISOCXX]

basic\_streambuf<wchar\_t, char\_traits<wchar\_t> >::pubsetbuf(wchar\_t\*, int)
(GLIBCXX\_3.4) [ISOCXX]

### 7.1.84 Class basic\_filebuf<char, char\_traits<char> >

#### 7.1.84.1 Class data for basic\_filebuf<char, char\_traits<char> >

The virtual table for the std::basic\_filebuf<char, std::char\_traits<char> > class is described by <a href="mailto:Table 7-137">Table 7-137</a>

Table 7-137 Primary vtable for basic\_filebuf<char, char\_traits<char>>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for basic_filebuf <char, char_traits<char="">&gt;</char,>
vfunc[0]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::~basic_filebuf()</char,></pre>
vfunc[1]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::~basic_filebuf()</char,></pre>
vfunc[2]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::imbue(locale const&amp;)</char,></pre>
vfunc[3]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::setbuf(char*, int)</char,></pre>
vfunc[4]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</char,></pre>
vfunc[5]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::seekpos(fpos<mbstate_t>,     _Ios_Openmode)</mbstate_t></char,></pre>
vfunc[6]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::sync()</char,></pre>
vfunc[7]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::showmanyc()</char,></pre>
vfunc[8]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::xsgetn(char*, int)</char,></pre>
vfunc[9]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::underflow()</char,></pre>
vfunc[10]:	<pre>basic_streambuf<char, char_traits<char=""> &gt;::uflow()</char,></pre>
vfunc[11]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::pbackfail(int)</char,></pre>
vfunc[12]:	<pre>basic_filebuf<char, char_traits<char=""> &gt;::xsputn(char const*, int)</char,></pre>
vfunc[13]:	basic_filebuf <char, char_traits<char=""></char,>

>::overflow(int)
------------------

The Run Time Type Information for the std::basic\_filebuf<char, std::char\_traits<char> > class is described by <a href="Table 7-138">Table 7-138</a>

Table 7-138 typeinfo for basic\_filebuf<char, char\_traits<char> >

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for basic_filebuf <char, char_traits<char=""></char,>

#### 7.1.84.2 Interfaces for Class basic\_filebuf<char, char\_traits<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_filebuf<char, std::char\_traits<char> > specified in Table 7-139, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-139 libstdcxx - Class basic\_filebuf<char, char\_traits<char> > Function Interfaces

basic_filebuf <char, char_traits<char=""> &gt;::_M_set_buffer(int)(GLIBCXX_3.4) [ISOCXX]</char,>
basic_filebuf <char, char_traits<char=""> &gt;::_M_convert_to_external(char*, int) (GLIBCXX_3.4) [ISOCXX]</char,>
basic_filebuf <char, char_traits<char=""> &gt;::setbuf(char*, int)(GLIBCXX_3.4) [ISOCXX]</char,>
basic_filebuf <char, char_traits<char=""> &gt;::xsgetn(char*, int)(GLIBCXX_3.4) [ISOCXX]</char,>
basic_filebuf <char, char_traits<char=""> &gt;::xsputn(char const*, int) (GLIBCXX_3.4) [ISOCXX]</char,>
basic_filebuf <char, char_traits<char=""> &gt;::_M_seek(long long, _Ios_Seekdir,mbstate_t)(GLIBCXX_3.4) [ISOCXX]</char,>
basic_filebuf <char, char_traits<char=""> &gt;::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</char,>

## 7.1.85 Class basic\_filebuf<wchar\_t, char\_traits<wchar\_t> >

### 7.1.85.1 Class data for basic\_filebuf<wchar\_t, char\_traits<wchar\_t>

The virtual table for the std::basic\_filebuf<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-140</u>

Table 7-140 Primary vtable for basic\_filebuf<wchar\_t, char\_traits<wchar\_t>>

Base Offset	0
Virtual Base Offset	0
RTTI	<pre>typeinfo for basic_filebuf<wchar_t, char_traits<wchar_t="">&gt;</wchar_t,></pre>

vfunc[0]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::~basic_filebuf()</wchar_t,>
vfunc[1]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::~basic_filebuf()</wchar_t,>
vfunc[2]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::imbue(locale const&amp;)</wchar_t,>
vfunc[3]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::setbuf(wchar_t*, int)</wchar_t,>
vfunc[4]:	basic_filebuf <wchar_t, char_traits<wchar_t="">&gt;::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</wchar_t,>
vfunc[5]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::seekpos(fpos<mbstate_t>, _Ios_Openmode)</mbstate_t></wchar_t,>
vfunc[6]:	<pre>basic_filebuf<wchar_t, char_traits<wchar_t="">&gt;::sync()</wchar_t,></pre>
vfunc[7]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::showmanyc()</wchar_t,>
vfunc[8]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::xsgetn(wchar_t*, int)</wchar_t,>
vfunc[9]:	basic_filebuf <wchar_t, char_traits<wchar_t="">&gt;::underflow()</wchar_t,>
vfunc[10]:	basic_streambuf <wchar_t, char_traits<wchar_t="">&gt;::uflow()</wchar_t,>
vfunc[11]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::pbackfail(unsigned int)</wchar_t,>
vfunc[12]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::xsputn(wchar_t const*, int)</wchar_t,>
vfunc[13]:	basic_filebuf <wchar_t, char_traits<wchar_t=""> &gt;::overflow(unsigned int)</wchar_t,>

The Run Time Type Information for the std::basic\_filebuf<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-141</u>

Table 7-141 typeinfo for basic\_filebuf<wchar\_t, char\_traits<wchar\_t>>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for

basic_filebuf <wchar_t,< th=""></wchar_t,<>
char_traits <wchar_t>&gt;</wchar_t>

### 7.1.85.2 Interfaces for Class basic\_filebuf<wchar\_t, char\_traits<wchar\_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic\_filebuf<wchar\_t, std::char\_traits<wchar\_t> > specified in Table 7-142, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-142 libstdcxx - Class basic\_filebuf<wchar\_t, char\_traits<wchar\_t> > Function Interfaces

basic\_filebuf<wchar\_t, char\_traits<wchar\_t>>::\_M\_set\_buffer(int) (GLIBCXX\_3.4) [ISOCXX] basic\_filebuf<wchar\_t, char\_traits<wchar\_t> >::\_M\_convert\_to\_external(wchar\_t\*, int)(GLIBCXX\_3.4) [ISOCXX] basic\_filebuf<wchar\_t, char\_traits<wchar\_t> >::setbuf(wchar\_t\*, int) (GLIBCXX\_3.4) [ISOCXX] basic\_filebuf<wchar\_t, char\_traits<wchar\_t> >::xsgetn(wchar\_t\*, int) (GLIBCXX\_3.4) [ISOCXX] basic\_filebuf<wchar\_t, char\_traits<wchar\_t> >::xsputn(wchar\_t const\*, int) (GLIBCXX\_3.4) [ISOCXX] basic\_filebuf<wchar\_t, char\_traits<wchar\_t>>::\_M\_seek(long long, \_Ios\_Seekdir, \_\_mbstate\_t)(GLIBCXX\_3.4) [ISOCXX] basic\_filebuf<wchar\_t, char\_traits<wchar\_t>>::seekoff(long long, basic\_istream<wchar\_t, char\_traits<wchar\_t>>::seekg(long long, \_Ios\_Seekdir)(GLIBCXX\_3.4) [ISOCXX] basic\_ostream<wchar\_t, char\_traits<wchar\_t> >::seekp(long long, \_Ios\_Seekdir)(GLIBCXX\_3.4) [ISOCXX] basic\_ostream<wchar\_t, char\_traits<wchar\_t> >::\_M\_write(wchar\_t const\*,

### 7.1.86 Class ios\_base

int)(GLIBCXX\_3.4) [ISOCXX]

#### 7.1.86.1 Class data for ios\_base

The virtual table for the std::ios\_base class is described in the generic part of this specification.

The Run Time Type Information for the std::ios\_base class is described by <u>Table 7-143</u>

#### Table 7-143 typeinfo for ios\_base

<u> </u>	
Base Vtable	vtable for cxxabiv1::class_type_info
Name	typeinfo name for ios_base

#### 7.1.86.2 Interfaces for Class ios base

No external methods are defined for libstdcxx - Class std::ios\_base in this part of the specification. See also the generic specification.

#### 7.1.87 Class basic\_ios<char, char\_traits<char> >

#### 7.1.87.1 Class data for basic\_ios<char, char\_traits<char> >

The virtual table for the std::basic\_ios<char, std::char\_traits<char> > class is described in the generic part of this specification.

#### 7.1.87.2 Interfaces for Class basic\_ios<char, char\_traits<char> >

No external methods are defined for libstdcxx - Class std::basic\_ios<char, std::char\_traits<char> > in this part of the specification. See also the generic specification.

## 7.1.88 Class basic\_ios<wchar\_t, char\_traits<wchar\_t> >

#### 7.1.88.1 Class data for basic\_ios<wchar\_t, char\_traits<wchar\_t> >

The virtual table for the std::basic\_ios<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::basic\_ios<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-144</u>

Table 7-144 typeinfo for basic\_ios<wchar\_t, char\_traits<wchar\_t>>

Base Vtable	vtable forcxxabiv1::si_class_t ype_info	
Name	typeinfo name for basic_ios <wchar_t, char_traits<wchar_t="">&gt;</wchar_t,>	
flags:	8	
basetype:	typeinfo for ios_base	1026

## 7.1.88.2 Interfaces for Class basic\_ios<wchar\_t, char\_traits<wchar\_t> >

No external methods are defined for libstdcxx - Class std::basic\_ios<wchar\_t, std::char\_traits<wchar\_t> > in this part of the specification. See also the generic specification.

#### 7.1.89 Class ios\_base::failure

#### 7.1.89.1 Class data for ios\_base::failure

The virtual table for the std::ios\_base::failure class is described in the generic part of this specification.

The Run Time Type Information for the std::ios\_base::failure class is described by <u>Table 7-145</u>

Table 7-145 typeinfo for ios\_base::failure

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for ios_base::failure

#### 7.1.89.2 Interfaces for Class ios\_base::failure

No external methods are defined for libstdcxx - Class std::ios\_base::failure in this part of the specification. See also the generic specification.

### 7.1.90 Class \_\_timepunct<char>

#### 7.1.90.1 Class data for \_\_timepunct<char>

The virtual table for the std::\_\_timepunct<char> class is described in the generic part of this specification.

The Run Time Type Information for the std::\_timepunct<char> class is described by Table 7-146

Table 7-146 typeinfo for \_\_timepunct<char>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for timepunct <char></char>

#### 7.1.90.2 Interfaces for Class \_\_timepunct<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::\_timepunct<char> specified in <u>Table 7-147</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-147 libstdcxx - Class \_\_timepunct<char> Function Interfaces

timepunct <char>::_M_put(char*, unsigned int, char const*, tm const*) const(GLIBCXX_3.4) [ISOCXX]</char>
timepunct <char>::timepunct(locale_struct*, char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>
timepunct <char>::timepunct(timepunct_cache<char>*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char></char>
timepunct <char>::timepunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>
timepunct <char>::timepunct(locale_struct*, char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>
timepunct <char>::timepunct(timepunct_cache<char>*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char></char>
timepunct <char>::timepunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>

### 7.1.91 Class \_\_timepunct<wchar\_t>

#### 7.1.91.1 Class data for \_\_timepunct<wchar\_t>

The virtual table for the std::\_\_timepunct<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::\_\_timepunct<wchar\_t> class is described by <u>Table 7-148</u>

Table 7-148 typeinfo for \_\_timepunct<wchar\_t>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for timepunct <wchar_t></wchar_t>

#### 7.1.91.2 Interfaces for Class \_\_timepunct<wchar\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::\_timepunct<wchar\_t> specified in <u>Table 7-149</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-149 libstdcxx - Class \_\_timepunct<wchar\_t> Function Interfaces

timepunct <wchar_t>::_M_put(wchar_t*, unsigned int, wchar_t const*, tm const*) const(GLIBCXX_3.4) [ISOCXX]</wchar_t>
timepunct <wchar_t>::timepunct(locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>
timepunct <wchar_t>::timepunct(timepunct_cache<wchar_t>*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t></wchar_t>
timepunct <wchar_t>::timepunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>
timepunct <wchar_t>::timepunct(locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>
timepunct <wchar_t>::timepunct(timepunct_cache<wchar_t>*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t></wchar_t>
timepunct <wchar_t>::timepunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>

### 7.1.92 Class messages\_base

#### 7.1.92.1 Class data for messages\_base

The Run Time Type Information for the std::messages\_base class is described by  $\underline{\text{Table 7-150}}$ 

Table 7-150 typeinfo for messages\_base

Base Vtable	vtable for cxxabiv1::class_type_info
Name	typeinfo name for messages_base

#### 7.1.92.2 Interfaces for Class messages\_base

No external methods are defined for libstdcxx - Class std::messages\_base in this part of the specification. See also the generic specification.

### 7.1.93 Class messages<char>

#### 7.1.93.1 Class data for messages<char>

The virtual table for the std::messages<char> class is described in the generic

part of this specification.

#### 7.1.93.2 Interfaces for Class messages<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::messages<char> specified in <u>Table 7-151</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-151 libstdcxx - Class messages<char> Function Interfaces

messages <char>::messages(locale_struct*, char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>
messages <char>::messages(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>
messages <char>::messages(locale_struct*, char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>
messages <char>::messages(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>

### 7.1.94 Class messages<wchar t>

#### 7.1.94.1 Class data for messages<wchar\_t>

The virtual table for the std::messages<wchar\_t> class is described in the generic part of this specification.

#### 7.1.94.2 Interfaces for Class messages<wchar\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::messages<wchar\_t> specified in <u>Table 7-152</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-152 libstdcxx - Class messages<wchar\_t> Function Interfaces

messages <wchar_t>::messages(locale_struct*, char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</wchar_t>
messages <wchar_t>::messages(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>
messages <wchar_t>::messages(locale_struct*, char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</wchar_t>
messages <wchar_t>::messages(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>

### 7.1.95 Class messages\_byname<char>

#### 7.1.95.1 Class data for messages\_byname<char>

The virtual table for the std::messages\_byname<char> class is described in the generic part of this specification.

The Run Time Type Information for the std::messages\_byname<char> class is described by <u>Table 7-153</u>

Table 7-153 typeinfo for messages\_byname<char>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for messages_byname <char></char>

#### 7.1.95.2 Interfaces for Class messages byname<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::messages\_byname<char> specified in <u>Table 7-154</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-154 libstdcxx - Class messages\_byname<char> Function Interfaces

messages\_byname<char>::messages\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

messages\_byname<char>::messages\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

### 7.1.96 Class messages\_byname<wchar\_t>

#### 7.1.96.1 Class data for messages\_byname<wchar\_t>

The virtual table for the std::messages\_byname<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::messages\_byname<wchar\_t> class is described by <u>Table 7-155</u>

Table 7-155 typeinfo for messages\_byname<wchar\_t>

<u> </u>	
Base Vtable	vtable forcxxabiv1::si_class_type_info
	cxxabivisi_ciass_type_iiiio
Name	typeinfo name for messages_byname <wchar_t></wchar_t>

#### 7.1.96.2 Interfaces for Class messages\_byname<wchar\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::messages\_byname<wchar\_t> specified in <u>Table 7-156</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-156 libstdcxx - Class messages\_byname<wchar\_t> Function Interfaces

messages\_byname<wchar\_t>::messages\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

messages\_byname<wchar\_t>::messages\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

### 7.1.97 Class numpunct<char>

#### 7.1.97.1 Class data for numpunct<char>

The virtual table for the std::numpunct<char> class is described in the generic part of this specification.

The Run Time Type Information for the std::numpunct<char> class is described by <u>Table 7-157</u>

Table 7-157 typeinfo for numpunct<char>

Base Vtable	vtable for
-------------	------------

	cxxabiv1::si_class_type_info
Name	typeinfo name for numpunct <char></char>

#### 7.1.97.2 Interfaces for Class numpunct<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::numpunct<char> specified in <u>Table 7-158</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-158 libstdcxx - Class numpunct<char> Function Interfaces

numpunct <char>::numpunct(locale_struct*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>	
numpunct <char>::numpunct(numpunct_cache<char>*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char></char>	
numpunct <char>::numpunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>	
numpunct <char>::numpunct(locale_struct*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>	
numpunct <char>::numpunct(numpunct_cache<char>*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char></char>	
numpunct <char>::numpunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>	

### 7.1.98 Class numpunct<wchar\_t>

#### 7.1.98.1 Class data for numpunct<wchar\_t>

The virtual table for the std::numpunct<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::numpunct<wchar\_t> class is described by <u>Table 7-159</u>

Table 7-159 typeinfo for numpunct<wchar\_t>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for numpunct <wchar_t></wchar_t>

#### 7.1.98.2 Interfaces for Class numpunct<wchar\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::numpunct<wchar\_t> specified in <u>Table 7-160</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-160 libstdcxx - Class numpunct<wchar\_t> Function Interfaces

numpunct <wchar_t>::numpunct(locale_struct*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</wchar_t>	
numpunct <wchar_t>::numpunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>	
numpunct <wchar_t>::numpunct(locale_struct*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</wchar_t>	
numpunct <wchar_t>::numpunct(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>	

### 7.1.99 Class numpunct\_byname<char>

#### 7.1.99.1 Class data for numpunct\_byname<char>

The virtual table for the std::numpunct\_byname<char> class is described in the generic part of this specification.

The Run Time Type Information for the std::numpunct\_byname<char> class is described by <u>Table 7-161</u>

Table 7-161 typeinfo for numpunct\_byname<char>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for numpunct_byname <char></char>

#### 7.1.99.2 Interfaces for Class numpunct\_byname<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::numpunct\_byname<char> specified in <u>Table 7-162</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-162 libstdcxx - Class numpunct\_byname<char> Function Interfaces

numpunct_byname <char>::numpunct_byname(char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>	
numpunct_byname <char>::numpunct_byname(char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>	

### 7.1.100 Class numpunct byname<wchar t>

#### 7.1.100.1 Class data for numpunct\_byname<wchar\_t>

The virtual table for the std::numpunct\_byname<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::numpunct\_byname<wchar\_t> class is described by <u>Table 7-163</u>

Table 7-163 typeinfo for numpunct\_byname<wchar\_t>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for numpunct_byname <wchar_t></wchar_t>

#### 7.1.100.2 Interfaces for Class numpunct\_byname<wchar\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::numpunct\_byname<wchar\_t> specified in <u>Table 7-164</u>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-164 libstdcxx - Class numpunct\_byname<wchar\_t> Function Interfaces

numpunct\_byname<wchar\_t>::numpunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

numpunct\_byname<wchar\_t>::numpunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.101 Class \_\_codecvt\_abstract\_base<char, char, \_\_mbstate\_t>

### 7.1.101.1 Interfaces for Class \_\_codecvt\_abstract\_base<char, char, \_\_mbstate\_t>

No external methods are defined for libstdcxx - Class std::\_codecvt\_abstract\_base<char, char, \_\_mbstate\_t> in this part of the specification. See also the generic specification.

## 7.1.102 Class \_\_codecvt\_abstract\_base<wchar\_t, char, \_\_mbstate\_t>

### 7.1.102.1 Class data for \_\_codecvt\_abstract\_base<wchar\_t, char, \_\_mbstate\_t>

The virtual table for the std::\_codecvt\_abstract\_base<wchar\_t, char, \_\_mbstate\_t> class is described in the generic part of this specification.

### 7.1.102.2 Interfaces for Class \_\_codecvt\_abstract\_base<wchar\_t, char, \_\_mbstate\_t>

No external methods are defined for libstdcxx - Class std::\_codecvt\_abstract\_base<wchar\_t, char, \_\_mbstate\_t> in this part of the specification. See also the generic specification.

### 7.1.103 Class codecvt\_base

#### 7.1.103.1 Class data for codecvt\_base

The Run Time Type Information for the std::codecvt\_base class is described by  $\underline{\text{Table 7-165}}$ 

Table 7-165 typeinfo for codecvt\_base

Base Vtable	vtable forcxxabiv1::class_type_info
Name	typeinfo name for codecvt_base

#### 7.1.103.2 Interfaces for Class codecvt\_base

No external methods are defined for libstdcxx - Class std::codecvt\_base in this part of the specification. See also the generic specification.

### 7.1.104 Class codecvt<char, char, \_\_mbstate\_t>

#### 7.1.104.1 Class data for codecvt<char, char, \_\_mbstate\_t>

The virtual table for the std::codecvt<char, char, \_\_mbstate\_t> class is described by <u>Table 7-166</u>

Table 7-166 Primary vtable for codecvt<char, char, \_\_mbstate\_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for codecvt <char, char,<br="">mbstate_t&gt;</char,>
vfunc[0]:	codecvt <char, char,<br="">mbstate_t&gt;::~codecvt()</char,>
vfunc[1]:	codecvt <char, char,<br="">mbstate_t&gt;::~codecvt()</char,>
vfunc[2]:	codecvt <char, char,mbstate_t="">::do_out(mbstate_t&amp;, char const*, char const*, char const*&amp;, char*, char*&amp;) const</char,>
vfunc[3]:	codecvt <char, char,mbstate_t="">::do_unshift(mbstate _t&amp;, char*, char*, char*&amp;) const</char,>
vfunc[4]:	codecvt <char, char,mbstate_t="">::do_in(mbstate_t&amp;, char const*, char const*, char const*&amp;, char*, char*&amp;) const</char,>
vfunc[5]:	codecvt <char, char,<br="">mbstate_t&gt;::do_encoding() const</char,>
vfunc[6]:	<pre>codecvt<char, char,="" mbstate_t="">::do_always_noconv() const</char,></pre>
vfunc[7]:	codecvt <char, char,mbstate_t="">::do_length(mbstate_ t&amp;, char const*, char const*, unsigned int) const</char,>
vfunc[8]:	<pre>codecvt<char, char,="" mbstate_t="">::do_max_length() const</char,></pre>

The Run Time Type Information for the std::codecvt<char, char, \_\_mbstate\_t> class is described by <u>Table 7-167</u>

Table 7-167 typeinfo for codecvt<char, char, \_\_mbstate\_t>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for codecvt <char, char,mbstate_t=""></char,>

### 7.1.104.2 Class data for \_\_codecvt\_abstract\_base<char, char, \_\_mbstate\_t>

The virtual table for the std::\_\_codecvt\_abstract\_base<char, char, \_\_mbstate\_t> class is described in the generic part of this specification.

#### 7.1.104.3 Interfaces for Class codecvt<char, char, \_\_mbstate\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::codecvt<char, char, \_\_mbstate\_t> specified in <u>Table 7-168</u>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-168 libstdcxx - Class codecvt<char, char, \_\_mbstate\_t> Function Interfaces

codecvt <char, char,mbstate_t="">::do_length(mbstate_t&amp;, char const*, char const*, unsigned int) const(GLIBCXX_3.4) [ISOCXX]</char,>
codecvt <char, char,mbstate_t="">::codecvt(locale_struct*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char,>
codecvt <char, char,mbstate_t="">::codecvt(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char,>
codecvt <char, char,mbstate_t="">::codecvt(locale_struct*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char,>
codecvt <char, char,mbstate_t="">::codecvt(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char,>

### 7.1.105 Class codecvt<wchar\_t, char, \_\_mbstate\_t>

#### 7.1.105.1 Class data for codecvt<wchar\_t, char, \_\_mbstate\_t>

The virtual table for the std::codecvt<wchar\_t, char, \_\_mbstate\_t> class is described by <u>Table 7-169</u>

Table 7-169 Primary vtable for codecvt<wchar\_t, char, \_\_mbstate\_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for codecvt <wchar_t, char,mbstate_t=""></wchar_t,>
vfunc[0]:	codecvt <wchar_t, char,<br="">mbstate_t&gt;::~codecvt()</wchar_t,>
vfunc[1]:	codecvt <wchar_t, char,<br="">mbstate_t&gt;::~codecvt()</wchar_t,>
vfunc[2]:	codecvt <wchar_t, char,mbstate_t="">::do_out(mbstate_t&amp;, wchar_t const*, wchar_t const*, wchar_t const*&amp;, char*, char*, char*&amp;) const</wchar_t,>
vfunc[3]:	codecvt <wchar_t, char,<br="">mbstate_t&gt;::do_unshift(mbstate _t&amp;, char*, char*, char*&amp;) const</wchar_t,>

vfunc[4]:	codecvt <wchar_t, char,mbstate_t="">::do_in(mbstate_t&amp;, char const*, char const*, char const*&amp;, wchar_t*, wchar_t*, wchar_t*&amp;) const</wchar_t,>
vfunc[5]:	codecvt <wchar_t, char,<br="">mbstate_t&gt;::do_encoding() const</wchar_t,>
vfunc[6]:	codecvt <wchar_t, char,<br="">mbstate_t&gt;::do_always_noconv() const</wchar_t,>
vfunc[7]:	codecvt <wchar_t, char,mbstate_t="">::do_length(mbstate_ t&amp;, char const*, char const*, unsigned int) const</wchar_t,>
vfunc[8]:	codecvt <wchar_t, char,<br="">mbstate_t&gt;::do_max_length() const</wchar_t,>

The Run Time Type Information for the std::codecvt<wchar\_t, char, \_\_mbstate\_t> class is described by <u>Table 7-170</u>

Table 7-170 typeinfo for codecvt<wchar\_t, char, \_\_mbstate\_t>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for codecvt <wchar_t, char,mbstate_t=""></wchar_t,>

#### 7.1.105.2 Interfaces for Class codecvt<wchar\_t, char, \_\_mbstate\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::codecvt<wchar\_t, char, \_\_mbstate\_t> specified in <u>Table 7-171</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-171 libstdcxx - Class codecvt<wchar\_t, char, \_\_mbstate\_t> Function Interfaces

codecvt <wchar_t, char,mbstate_t="">::do_length(mbstate_t&amp;, char const*, char const*, unsigned int) const(GLIBCXX_3.4) [ISOCXX]</wchar_t,>
codecvt <wchar_t, char,mbstate_t="">::codecvt(locale_struct*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</wchar_t,>
codecvt <wchar_t, char,mbstate_t="">::codecvt(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t,>
codecvt <wchar_t, char,mbstate_t="">::codecvt(locale_struct*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</wchar_t,>
codecvt <wchar_t, char,mbstate_t="">::codecvt(unsigned int)(GLIBCXX_3.4)  [ISOCXX]</wchar_t,>

## 7.1.106 Class codecvt\_byname<char, char, \_\_mbstate\_t>

### 7.1.106.1 Class data for codecvt\_byname<char, char, \_\_mbstate\_t>

The virtual table for the std::codecvt\_byname<char, char, \_\_mbstate\_t> class is described by <u>Table 7-172</u>

Table 7-172 Primary vtable for codecvt\_byname<char, char, \_\_mbstate\_t>

Base Offset	0
Virtual Base Offset	0
RTTI	<pre>typeinfo for codecvt_byname<char, char,mbstate_t=""></char,></pre>
vfunc[0]:	codecvt_byname <char, char,<br="">mbstate_t&gt;::~codecvt_byname()</char,>
vfunc[1]:	codecvt_byname <char, char,<br="">mbstate_t&gt;::~codecvt_byname()</char,>
vfunc[2]:	codecvt <char, char,mbstate_t="">::do_out(mbstate_t&amp;, char const*, char const*, char const*&amp;, char*, char*, char*&amp;) const</char,>
vfunc[3]:	codecvt <char, char,mbstate_t="">::do_unshift(mbstate _t&amp;, char*, char*, char*&amp;) const</char,>
vfunc[4]:	codecvt <char, char,mbstate_t="">::do_in(mbstate_t&amp;, char const*, char const*, char const*&amp;, char*, char*, char*&amp;) const</char,>
vfunc[5]:	codecvt <char, char,<br="">mbstate_t&gt;::do_encoding() const</char,>
vfunc[6]:	<pre>codecvt<char, char,="" mbstate_t="">::do_always_noconv()   const</char,></pre>
vfunc[7]:	codecvt <char, char,mbstate_t="">::do_length(mbstate_ t&amp;, char const*, char const*, unsigned int) const</char,>
vfunc[8]:	codecvt <char, char,<br="">mbstate_t&gt;::do_max_length() const</char,>

The Run Time Type Information for the std::codecvt\_byname<char, char, \_\_mb-state\_t> class is described by <u>Table 7-173</u>

Table 7-173 typeinfo for codecvt\_byname<char, char, \_\_mbstate\_t>

Tuble / 1/5 typellilo lol codecve_bynai	ne tenar, enar, <u>nicotate</u>
Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for codecvt_byname <char, char,<="" td=""></char,>

|--|

## 7.1.106.2 Interfaces for Class codecvt\_byname<char, char, \_\_mbstate\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::codecvt\_byname<char, char, \_\_mbstate\_t> specified in Table 7-174, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-174 libstdcxx - Class codecvt\_byname<char, char, \_\_mbstate\_t> Function Interfaces

codecvt\_byname<char, char, \_\_mbstate\_t>::codecvt\_byname(char const\*,
unsigned int)(GLIBCXX\_3.4) [ISOCXX]

codecvt\_byname<char, char, \_\_mbstate\_t>::codecvt\_byname(char const\*,
unsigned int)(GLIBCXX\_3.4) [ISOCXX]

## 7.1.107 Class codecvt\_byname<wchar\_t, char, \_\_mbstate\_t>

### 7.1.107.1 Class data for codecvt\_byname<wchar\_t, char, \_\_mbstate\_t>

The virtual table for the std::codecvt\_byname<wchar\_t, char, \_\_mbstate\_t> class is described by <u>Table 7-175</u>

Table 7-175 Primary vtable for codecvt\_byname<wchar\_t, char, \_\_mbstate\_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for codecvt_byname <wchar_t, char,mbstate_t=""></wchar_t,>
vfunc[0]:	codecvt_byname <wchar_t, char,<br="">mbstate_t&gt;::~codecvt_byname()</wchar_t,>
vfunc[1]:	codecvt_byname <wchar_t, char,<br="">mbstate_t&gt;::~codecvt_byname()</wchar_t,>
vfunc[2]:	codecvt <wchar_t, char,mbstate_t="">::do_out(mbstate_t&amp;, wchar_t const*, wchar_t const*, wchar_t const*&amp;, char*, char*, char*&amp;) const</wchar_t,>
vfunc[3]:	codecvt <wchar_t, char,mbstate_t="">::do_unshift(mbstate _t&amp;, char*, char*&amp;) const</wchar_t,>
vfunc[4]:	codecvt <wchar_t, char,mbstate_t="">::do_in(mbstate_t&amp;, char const*, char const*, char const*&amp;, wchar_t*, wchar_t*, wchar_t*&amp;) const</wchar_t,>
vfunc[5]:	codecvt <wchar_t, char,<="" td=""></wchar_t,>

	mbstate_t>::do_encoding() const
vfunc[6]:	codecvt <wchar_t, char,<br="">mbstate_t&gt;::do_always_noconv() const</wchar_t,>
vfunc[7]:	codecvt <wchar_t, char,mbstate_t="">::do_length(mbstate_ t&amp;, char const*, char const*, unsigned int) const</wchar_t,>
vfunc[8]:	codecvt <wchar_t, char,mbstate_t="">::do_max_length() const</wchar_t,>

The Run Time Type Information for the std::codecvt\_byname<wchar\_t, char, \_\_mbstate\_t> class is described by <u>Table 7-176</u>

Table 7-176 typeinfo for codecvt\_byname<wchar\_t, char, \_\_mbstate\_t>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for codecvt_byname <wchar_t, char,mbstate_t=""></wchar_t,>

#### 7.1.107.2 Class data for collate\_byname<wchar\_t>

The virtual table for the std::collate\_byname<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::collate\_byname<wchar\_t> class is described by <u>Table 7-177</u>

Table 7-177 typeinfo for collate\_byname<wchar\_t>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for collate_byname <wchar_t></wchar_t>

## 7.1.107.3 Interfaces for Class codecvt\_byname<wchar\_t, char, \_\_mbstate\_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::codecvt\_byname<wchar\_t, char, \_\_mbstate\_t> specified in <u>Table 7-178</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-178 libstdcxx - Class codecvt\_byname<wchar\_t, char, \_\_mbstate\_t> Function Interfaces

codecvt_byname <wchar_t, char,mbstate_t="">::codecvt_byname(char const*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t,>
codecvt_byname <wchar_t, char,mbstate_t="">::codecvt_byname(char const*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t,>
collate_byname <wchar_t>::collate_byname(char const*, unsigned int) (GLIBCXX 3.4) [ISOCXX]</wchar_t>

collate\_byname<wchar\_t>::collate\_byname(char const\*, unsigned int) (GLIBCXX\_3.4) [ISOCXX]

#### 7.1.108 Class collate<char>

#### 7.1.108.1 Class data for collate<char>

The virtual table for the std::collate<char> class is described in the generic part of this specification.

The Run Time Type Information for the std::collate<char> class is described by Table 7-179

#### Table 7-179 typeinfo for collate<char>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for collate <char></char>

#### 7.1.108.2 Interfaces for Class collate<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::collate<char> specified in <u>Table 7-180</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-180 libstdcxx - Class collate<char> Function Interfaces

collate <char>::_M_transform(char*, char const*, unsigned int) const(GLIBCXX_3.4) [ISOCXX]</char>
collate <char>::collate(locale_struct*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>
collate <char>::collate(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char>
collate <char>::collate(unsigned int)(GLIBCXX_3.4) [ISOCXX]  collate<char>::collate(locale_struct*, unsigned int)(GLIBCXX_3.4)  [ISOCXX]</char></char>

### 7.1.109 Class collate<wchar\_t>

#### 7.1.109.1 Class data for collate<wchar\_t>

The virtual table for the std::collate<wchar\_t> class is described in the generic part of this specification.

The Run Time Type Information for the std::collate<wchar\_t> class is described by <u>Table 7-181</u>

Table 7-181 typeinfo for collate<wchar\_t>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for collate <wchar_t></wchar_t>

#### 7.1.109.2 Interfaces for Class collate<wchar t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::collate<wchar\_t> specified in Table 7-182, with the full

mandatory functionality as described in the referenced underlying specification.

#### Table 7-182 libstdcxx - Class collate<wchar\_t> Function Interfaces

collate <wchar_t>::_M_transform(wchar_t*, wchar_t const*, unsigned int) const(GLIBCXX_3.4) [ISOCXX]</wchar_t>
collate <wchar_t>::collate(locale_struct*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>
collate <wchar_t>::collate(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>
collate <wchar_t>::collate(locale_struct*, unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>
collate <wchar_t>::collate(unsigned int)(GLIBCXX_3.4) [ISOCXX]</wchar_t>

### 7.1.110 Class collate\_byname<char>

#### 7.1.110.1 Class data for collate\_byname<char>

The virtual table for the std::collate\_byname<char> class is described in the generic part of this specification.

The Run Time Type Information for the std::collate\_byname<char> class is described by <u>Table 7-183</u>

Table 7-183 typeinfo for collate\_byname<char>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for collate_byname <char></char>

#### 7.1.110.2 Interfaces for Class collate\_byname<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::collate\_byname<char> specified in <u>Table 7-184</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-184 libstdcxx - Class collate\_byname<char> Function Interfaces

collate_byname <char>::collate_byname(char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>
collate_byname <char>::collate_byname(char const*, unsigned int) (GLIBCXX_3.4) [ISOCXX]</char>

### 7.1.111 Class collate\_byname<wchar\_t>

#### 7.1.111.1 Interfaces for Class collate\_byname<wchar\_t>

No external methods are defined for libstdcxx - Class std::collate\_byname<wchar\_t> in this part of the specification. See also the generic specification.

### 7.1.112 Class time\_base

#### 7.1.112.1 Class data for time\_base

The Run Time Type Information for the std::time\_base class is described by Table 7-185

Table 7-185 typeinfo for time\_base

Base Vtable	vtable forcxxabiv1::class_type_info
Name	typeinfo name for time_base

#### 7.1.112.2 Interfaces for Class time\_base

No external methods are defined for libstdcxx - Class std::time\_base in this part of the specification. See also the generic specification.

## 7.1.113 Class time\_get\_byname<char, istreambuf\_iterator<char, char\_traits<char> > >

### 7.1.113.1 Class data for time\_get\_byname<char, istreambuf\_iterator<char, char\_traits<char>>>

The virtual table for the std::time\_get\_byname<char, std::istreambuf\_iterator<char, std::char\_traits<char> >> class is described in the generic part of this specification.

The Run Time Type Information for the std::time\_get\_byname<char, std::istreambuf\_iterator<char, std::char\_traits<char> > class is described by Table 7-186

Table 7-186 typeinfo for time\_get\_byname<char, istreambuf\_iterator<char, char\_traits<char>>>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for time_get_byname <char, char_traits<char="" istreambuf_iterator<char,="">&gt;&gt;</char,>

### 7.1.113.2 Interfaces for Class time\_get\_byname<char, istreambuf\_iterator<char, char\_traits<char> >>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_get\_byname<char, std::istreambuf\_iterator<char, std::char\_traits<char> > specified in <a href="Table 7-187">Table 7-187</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-187 libstdcxx - Class time\_get\_byname<char, istreambuf\_iterator<char, char\_traits<char> >> Function Interfaces

time_get_byname <char, char_traits<char="" istreambuf_iterator<char,=""> &gt;</char,>	
>::time_get_byname(char const*, unsigned int)(GLIBCXX_3.4) [ISOCXX]	
time_get_byname <char, char_traits<char="" istreambuf_iterator<char,="">&gt;</char,>	

>::time\_get\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.114 Class time\_get\_byname<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

### 7.1.114.1 Class data for time\_get\_byname<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

The virtual table for the std::time\_get\_byname<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::time\_get\_byname<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described by Table 7-188

Table 7-188 typeinfo for time\_get\_byname<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	<pre>typeinfo name for time_get_byname<wchar_t, char_traits<wchar_t="" istreambuf_iterator<wchar_t,="">&gt;&gt;</wchar_t,></pre>

### 7.1.114.2 Interfaces for Class time\_get\_byname<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_get\_byname<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > specified in Table 7-189, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-189 libstdcxx - Class time\_get\_byname<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>> Function Interfaces

time\_get\_byname<wchar\_t, istreambuf\_iterator<wchar\_t,
char\_traits<wchar\_t>>>::time\_get\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

time\_get\_byname<wchar\_t, istreambuf\_iterator<wchar\_t,
char\_traits<wchar\_t>>::time\_get\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

## 7.1.115 Class time\_put\_byname<char, ostreambuf iterator<char, char traits<char> >>

### 7.1.115.1 Class data for time\_put\_byname<char, ostreambuf\_iterator<char, char\_traits<char>>>

The virtual table for the std::time\_put\_byname<char, std::ostreambuf\_iterator<char, std::char\_traits<char> >> class is described in

the generic part of this specification.

The Run Time Type Information for the std::time\_put\_byname<char, std::os-treambuf\_iterator<char, std::char\_traits<char> >> class is described by <u>Table 7-190</u>

Table 7-190 typeinfo for time\_put\_byname<char, ostreambuf\_iterator<char, char\_traits<char>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for time_put_byname <char, char_traits<char="" ostreambuf_iterator<char,="">&gt;&gt;</char,>

# 7.1.115.2 Interfaces for Class time\_put\_byname<char, ostreambuf\_iterator<char, char\_traits<char> >>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_put\_byname<char, std::ostreambuf\_iterator<char, std::char\_traits<char> >> specified in <a href="Table 7-191">Table 7-191</a>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-191 libstdcxx - Class time\_put\_byname<char, ostreambuf\_iterator<char, char\_traits<char> >> Function Interfaces

time\_put\_byname<char, ostreambuf\_iterator<char, char\_traits<char> >
>::time\_put\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

time\_put\_byname<char, ostreambuf\_iterator<char, char\_traits<char>> ::time\_put\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.116 Class time\_put\_byname<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

# 7.1.116.1 Class data for time\_put\_byname<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

The virtual table for the std::time\_put\_byname<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::time\_put\_byname<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described by Table 7-192

Table 7-192 typeinfo for time\_put\_byname<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	<pre>typeinfo name for time_put_byname<wchar_t, char_traits<wchar_t="" ostreambuf_iterator<wchar_t,="">&gt;&gt;</wchar_t,></pre>

# 7.1.116.2 Interfaces for Class time\_put\_byname<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_put\_byname<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > specified in Table 7-193, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-193 libstdcxx - Class time\_put\_byname<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>> Function Interfaces

time\_put\_byname<wchar\_t, ostreambuf\_iterator<wchar\_t,
char\_traits<wchar\_t>>>::time\_put\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

time\_put\_byname<wchar\_t, ostreambuf\_iterator<wchar\_t,
char\_traits<wchar\_t>>>::time\_put\_byname(char const\*, unsigned int)
(GLIBCXX\_3.4) [ISOCXX]

# 7.1.117 Class time\_get<char, istreambuf iterator<char, char traits<char>>>

# 7.1.117.1 Class data for time\_get<char, istreambuf\_iterator<char, char\_traits<char> >>

The virtual table for the std::time\_get<char, std::istreambuf\_iterator<char, std::char\_traits<char> >> class is described in the generic part of this specification.

# 7.1.117.2 Interfaces for Class time\_get<char, istreambuf\_iterator<char, char\_traits<char>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_get<char, std::istreambuf\_iterator<char, std::char\_traits<char> > specified in Table 7-194, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-194 libstdcxx - Class time\_get<char, istreambuf\_iterator<char, char\_traits<char>>> Function Interfaces

time\_get<char, istreambuf\_iterator<char, char\_traits<char> >
::\_M\_extract\_num(istreambuf\_iterator<char, char\_traits<char> >,
istreambuf\_iterator<char, char\_traits<char> >, int&, int, int, unsigned int,
ios\_base&, \_Ios\_Iostate&) const(GLIBCXX\_3.4) [ISOCXX]

time\_get<char, istreambuf\_iterator<char, char\_traits<char> >
:::\_M\_extract\_name(istreambuf\_iterator<char, char\_traits<char> >,
istreambuf\_iterator<char, char\_traits<char> >, int&, char const\*\*, unsigned
int, ios\_base&, \_Ios\_Iostate&) const(GLIBCXX\_3.4) [ISOCXX]

time\_get<char, istreambuf\_iterator<char, char\_traits<char>>
::time\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

time\_get<char, istreambuf\_iterator<char, char\_traits<char>>
>::time\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.118 Class time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

# 7.1.118.1 Class data for time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

The virtual table for the std::time\_get<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

# 7.1.118.2 Interfaces for Class time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_get<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > specified in Table 7-195, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-195 libstdcxx - Class time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>> Function Interfaces

time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::\_M\_extract\_num(istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>,
istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>, int&, int, int, unsigned
int, ios\_base&, \_Ios\_Iostate&) const(GLIBCXX\_3.4) [ISOCXX]

time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::\_M\_extract\_name(istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>,
istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>, int&, wchar\_t const\*\*,
unsigned int, ios\_base&, \_Ios\_Iostate&) const(GLIBCXX\_3.4) [ISOCXX]

time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::time\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

time\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::time\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.119 Class time\_put<char, ostreambuf iterator<char, char traits<char>>>

# 7.1.119.1 Class data for time\_put<char, ostreambuf\_iterator<char, char traits<char>>>

The virtual table for the std::time\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> >> class is described in the generic part of this specification.

The Run Time Type Information for the std::time\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> >> class is described by <a href="Table 7-196">Table 7-196</a>

### Table 7-196 typeinfo for time\_put<char, ostreambuf\_iterator<char, char traits<char>>>

Base Vtable	vtable for cxxabiv1::si_class_t ype_info	

Name	typeinfo name for time_put <char, ostreambuf_iterator<ch ar, char_traits<char> &gt; &gt;</char></ch </char, 	
flags:	8	
basetype:	typeinfo for locale::facet	2
basetype:	typeinfo for time_base	2

# 7.1.119.2 Interfaces for Class time\_put<char, ostreambuf\_iterator<char, char\_traits<char>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> > specified in <u>Table 7-197</u>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-197 libstdcxx - Class time\_put<char, ostreambuf\_iterator<char, char\_traits<char>>> Function Interfaces

time\_put<char, ostreambuf\_iterator<char, char\_traits<char>>
>::time\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

time\_put<char, ostreambuf\_iterator<char, char\_traits<char>>
>::time\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.120 Class time\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

# 7.1.120.1 Class data for time\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

The virtual table for the std::time\_put<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::time\_put<wchar\_t, std::ostream-buf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table</u> 7-198

Table 7-198 typeinfo for time\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

Base Vtable	vtable for cxxabiv1::si_class_t ype_info	
Name	<pre>typeinfo name for time_put<wchar_t, char_t,="" char_traits<wchar_t="" ostreambuf_iterator<w="">&gt; &gt;</wchar_t,></pre>	

flags:	8	
basetype:	typeinfo for locale::facet	2
basetype:	typeinfo for time_base	2

### 7.1.120.2 Interfaces for Class time\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::time\_put<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> >> specified in Table 7-199, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-199 libstdcxx - Class time\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >> Function Interfaces

time\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >
>::time\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

time\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >
::time\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.121 Class moneypunct<char, false>

#### 7.1.121.1 Class data for moneypunct<char, false>

The virtual table for the std::moneypunct<char, false> class is described in the generic part of this specification.

#### 7.1.121.2 Interfaces for Class moneypunct<char, false>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct<char, false> specified in <u>Table 7-200</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-200 libstdcxx - Class moneypunct<char, false> Function Interfaces

moneypunct<char, false>::moneypunct(\_\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, false>::moneypunct(\_moneypunct\_cache<char, false>\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, false>::moneypunct(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, false>::moneypunct(\_\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, false>::moneypunct(\_moneypunct\_cache<char, false>\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, false>::moneypunct(unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

### 7.1.122 Class moneypunct<char, true>

#### 7.1.122.1 Class data for moneypunct<char, true>

The virtual table for the std::moneypunct<char, true> class is described in the generic part of this specification.

### 7.1.122.2 Interfaces for Class moneypunct<char, true>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct<char, true> specified in <u>Table 7-201</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-201 libstdcxx - Class moneypunct<char, true> Function Interfaces

moneypunct<char, true>::moneypunct(\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, true>::moneypunct(\_\_moneypunct\_cache<char, true>\*,
unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, true>::moneypunct(unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

moneypunct<char, true>::moneypunct(\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, true>::moneypunct(\_moneypunct\_cache<char, true>\*,
unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<char, true>::moneypunct(unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

### 7.1.123 Class moneypunct<wchar\_t, false>

#### 7.1.123.1 Class data for moneypunct<wchar\_t, false>

The virtual table for the std::moneypunct<wchar\_t, false> class is described in the generic part of this specification.

#### 7.1.123.2 Interfaces for Class moneypunct<wchar\_t, false>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct<wchar\_t, false> specified in <u>Table 7-202</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-202 libstdcxx - Class moneypunct<wchar\_t, false> Function Interfaces

moneypunct<wchar\_t, false>::moneypunct(\_\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, false>::moneypunct(\_\_moneypunct\_cache<wchar\_t, false>\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, false>::moneypunct(unsigned int)(GLIBCXX\_3.4)

moneypunct<wchar\_t, false>::moneypunct(\_\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, false>::moneypunct(\_\_moneypunct\_cache<wchar\_t,

#### false>\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, false>::moneypunct(unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

### 7.1.124 Class moneypunct<wchar\_t, true>

#### 7.1.124.1 Class data for moneypunct<wchar\_t, true>

The virtual table for the std::moneypunct<wchar\_t, true> class is described in the generic part of this specification.

#### 7.1.124.2 Interfaces for Class moneypunct<wchar\_t, true>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct<wchar\_t, true> specified in <u>Table 7-203</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-203 libstdcxx - Class moneypunct<wchar\_t, true> Function Interfaces

moneypunct<wchar\_t, true>::moneypunct(\_\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, true>::moneypunct(\_\_moneypunct\_cache<wchar\_t,
true>\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, true>::moneypunct(unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

moneypunct<wchar\_t, true>::moneypunct(\_\_locale\_struct\*, char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, true>::moneypunct(\_\_moneypunct\_cache<wchar\_t,
true>\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct<wchar\_t, true>::moneypunct(unsigned int)(GLIBCXX\_3.4)
[ISOCXX]

### 7.1.125 Class moneypunct\_byname<char, false>

#### 7.1.125.1 Class data for moneypunct byname<char, false>

The virtual table for the std::moneypunct\_byname<char, false> class is described in the generic part of this specification.

The Run Time Type Information for the std::moneypunct\_byname<char, false> class is described by Table 7-204

Table 7-204 typeinfo for moneypunct\_byname<char, false>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for moneypunct_byname <char, false=""></char,>

#### 7.1.125.2 Interfaces for Class moneypunct\_byname<char, false>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct\_byname<char, false> specified in <a href="Table 7-205">Table 7-205</a>, with the full mandatory functionality as described in the referenced under-

lying specification.

### Table 7-205 libstdcxx - Class moneypunct\_byname<char, false> Function Interfaces

moneypunct\_byname<char, false>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct\_byname<char, false>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.126 Class moneypunct\_byname<char, true>

#### 7.1.126.1 Class data for moneypunct\_byname<char, true>

The virtual table for the std::moneypunct\_byname<char, true> class is described in the generic part of this specification.

The Run Time Type Information for the std::moneypunct\_byname<char, true> class is described by <u>Table 7-206</u>

Table 7-206 typeinfo for moneypunct\_byname<char, true>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for moneypunct_byname <char, true=""></char,>

#### 7.1.126.2 Interfaces for Class moneypunct\_byname<char, true>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct\_byname<char, true> specified in <u>Table 7-207</u>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-207 libstdcxx - Class moneypunct\_byname<char, true> Function Interfaces

moneypunct\_byname<char, true>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct\_byname<char, true>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.127 Class moneypunct\_byname<wchar\_t, false>

#### 7.1.127.1 Class data for moneypunct\_byname<wchar\_t, false>

The virtual table for the std::moneypunct\_byname<wchar\_t, false> class is described in the generic part of this specification.

The Run Time Type Information for the std::moneypunct\_byname<wchar\_t, false> class is described by <u>Table 7-208</u>

Table 7-208 typeinfo for moneypunct byname<wchar t, false>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for moneypunct_byname <wchar_t,< td=""></wchar_t,<>

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#### 7.1.127.2 Interfaces for Class moneypunct\_byname<wchar\_t, false>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct\_byname<wchar\_t, false> specified in <u>Table 7-209</u>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-209 libstdcxx - Class moneypunct\_byname<wchar\_t, false> Function Interfaces

moneypunct\_byname<wchar\_t, false>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct\_byname<wchar\_t, false>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.128 Class moneypunct\_byname<wchar\_t, true>

#### 7.1.128.1 Class data for moneypunct\_byname<wchar\_t, true>

The virtual table for the std::moneypunct\_byname<wchar\_t, true> class is described in the generic part of this specification.

The Run Time Type Information for the std::moneypunct\_byname<wchar\_t, true> class is described by <u>Table 7-210</u>

Table 7-210 typeinfo for moneypunct\_byname<wchar\_t, true>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for moneypunct_byname <wchar_t, true=""></wchar_t,>

#### 7.1.128.2 Interfaces for Class moneypunct byname<wchar t, true>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct\_byname<wchar\_t, true> specified in <u>Table 7-211</u>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-211 libstdcxx - Class moneypunct\_byname<wchar\_t, true> Function Interfaces

moneypunct\_byname<wchar\_t, true>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

moneypunct\_byname<wchar\_t, true>::moneypunct\_byname(char const\*, unsigned int)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.129 Class money\_base

#### 7.1.129.1 Class data for money\_base

The Run Time Type Information for the std::money\_base class is described by Table 7-212

Table 7-212 typeinfo for money\_base

Base Vtable	vtable forcxxabiv1::class_type_info
Name	typeinfo name for money_base

#### 7.1.129.2 Interfaces for Class money\_base

No external methods are defined for libstdcxx - Class std::money\_base in this part of the specification. See also the generic specification.

# 7.1.130 Class money\_get<char, istreambuf\_iterator<char, char\_traits<char> > >

# 7.1.130.1 Class data for money\_get<char, istreambuf\_iterator<char, char\_traits<char> >>

The virtual table for the std::money\_get<char, std::istreambuf\_iterator<char, std::char\_traits<char> >> class is described in the generic part of this specification.

The Run Time Type Information for the std::money\_get<char, std::istreambuf\_iterator<char, std::char\_traits<char> >> class is described by Table 7-213

Table 7-213 typeinfo for money\_get<char, istreambuf\_iterator<char, char traits<char>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	<pre>typeinfo name for money_get<char, char_traits<char="" istreambuf_iterator<char,=""> &gt;&gt;</char,></pre>

# 7.1.130.2 Interfaces for Class money\_get<char, istreambuf\_iterator<char, char\_traits<char>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money\_get<char, std::istreambuf\_iterator<char, std::char\_traits<char> > specified in Table 7-214, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-214 libstdcxx - Class money\_get<char, istreambuf\_iterator<char, char\_traits<char>>> Function Interfaces

money_get <char, char_traits<char="" istreambuf_iterator<char,="">&gt; &gt;::money_get(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char,>	
money_get <char, char_traits<char="" istreambuf_iterator<char,="">&gt; ::money_get(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char,>	

# 7.1.131 Class money\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

### 7.1.131.1 Class data for money\_get<wchar\_t, istreambuf iterator<wchar t, char traits<wchar t>>>

The virtual table for the std::money\_get<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::money\_get<wchar\_t, std::istream-buf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-215</u>

Table 7-215 typeinfo for money\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char traits<wchar t>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for money_get <wchar_t, char_traits<wchar_t="" istreambuf_iterator<wchar_t,="">&gt;&gt;</wchar_t,>

# 7.1.131.2 Interfaces for Class money\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money\_get<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> >> specified in <a href="Table 7-216">Table 7-216</a>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-216 libstdcxx - Class money\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>> Function Interfaces

money\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >
>::money\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

money\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::money\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.132 Class money\_put<char, ostreambuf iterator<char, char traits<char> > >

# 7.1.132.1 Class data for money\_put<char, ostreambuf\_iterator<char, char\_traits<char>>>

The virtual table for the std::money\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> >> class is described in the generic part of this specification.

The Run Time Type Information for the std::money\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> > class is described by Table 7-217

Table 7-217 typeinfo for money\_put<char, ostreambuf\_iterator<char, char\_traits<char>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	<pre>typeinfo name for money_put<char, char_traits<char="" ostreambuf_iterator<char,="">&gt;&gt;</char,></pre>

### 7.1.132.2 Interfaces for Class money\_put<char, ostreambuf iterator<char, char traits<char>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> > specified in <a href="Table 7-218">Table 7-218</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-218 libstdcxx - Class money\_put<char, ostreambuf\_iterator<char, char\_traits<char>>> Function Interfaces

money\_put<char, ostreambuf\_iterator<char, char\_traits<char>>
>::money\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

money\_put<char, ostreambuf\_iterator<char, char\_traits<char>>
>::money\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.133 Class money\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

# 7.1.133.1 Class data for money\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

The virtual table for the std::money\_put<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::money\_put<wchar\_t, std::ostream-buf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-219</u>

Table 7-219 typeinfo for money\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

Base Vtable	vtable forcxxabiv1::si_class_type_info
Name	typeinfo name for money_put <wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>&gt;&gt;</wchar_t></wchar_t, </wchar_t, 

# 7.1.133.2 Interfaces for Class money\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money\_put<wchar\_t, std::ostreambuf\_iterator<wchar\_t,

std::char\_traits<wchar\_t> >> specified in <u>Table 7-220</u>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-220 libstdcxx - Class money\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>> Function Interfaces

money\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::money\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

money\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >
::money\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

#### 7.1.134 Class locale

#### 7.1.134.1 Interfaces for Class locale

An LSB conforming implementation shall provide the architecture specific methods for Class std::locale specified in <u>Table 7-221</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-221 libstdcxx - Class locale Function Interfaces

locale::_Impl::_Impl(char const*, unsigned int)(GLIBCXX_3.4) [LSB]	
locale::_Impl::_Impl(locale::_Impl const&, unsigned int)(GLIBCXX_3.4) [LSB]	
locale::_Impl::_Impl(unsigned int)(GLIBCXX_3.4) [LSB]	
locale::_Impl::_Impl(char const*, unsigned int)(GLIBCXX_3.4) [LSB]	
locale::_Impl::_Impl(locale::_Impl const&, unsigned int)(GLIBCXX_3.4) [LSB]	
locale::_Impl::_Impl(unsigned int)(GLIBCXX_3.4) [LSB]	

#### 7.1.135 Class locale::facet

#### 7.1.135.1 Class data for locale::facet

The virtual table for the std::locale::facet class is described in the generic part of this specification.

The Run Time Type Information for the std::locale::facet class is described by Table 7-222

Table 7-222 typeinfo for locale::facet

Base Vtable	vtable forcxxabiv1::class_type_info
Name	typeinfo name for locale::facet

#### 7.1.135.2 Interfaces for Class locale::facet

No external methods are defined for libstdcxx - Class std::locale::facet in this part of the specification. See also the generic specification.

#### 7.1.136 facet functions

#### 7.1.136.1 Interfaces for facet functions

No external methods are defined for libstdcxx - facet functions in this part of the specification. See also the generic specification.

### 7.1.137 Class \_\_num\_base

#### 7.1.137.1 Class data for \_\_num\_base

#### 7.1.137.2 Interfaces for Class \_\_num\_base

No external methods are defined for libstdcxx - Class std::\_num\_base in this part of the specification. See also the generic specification.

# 7.1.138 Class num\_get<char, istreambuf\_iterator<char, char\_traits<char> > >

# 7.1.138.1 Class data for num\_get<char, istreambuf\_iterator<char, char\_traits<char> >>

The virtual table for the std::num\_get<char, std::istreambuf\_iterator<char, std::char\_traits<char> >> class is described in the generic part of this specification.

The Run Time Type Information for the std::num\_get<char, std::istreambuf\_it-erator<char, std::char\_traits<char>>> class is described by <a href="Table 7-223">Table 7-223</a>

Table 7-223 typeinfo for num\_get<char, istreambuf\_iterator<char, char\_traits<char>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for num_get <char, char_traits<char="" istreambuf_iterator<char,="">&gt;&gt;</char,>
basetype:	typeinfo for locale::facet

# 7.1.138.2 Interfaces for Class num\_get<char, istreambuf\_iterator<char, char\_traits<char>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::num\_get<char, std::istreambuf\_iterator<char, std::char\_traits<char> > specified in Table 7-224, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-224 libstdcxx - Class num\_get<char, istreambuf\_iterator<char, char\_traits<char>>> Function Interfaces

num_get <char, char_traits<char="" istreambuf_iterator<char,="">&gt; &gt;::num_get(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char,>
num_get <char, char_traits<char="" istreambuf_iterator<char,="">&gt; &gt;::num_get(unsigned int)(GLIBCXX_3.4) [ISOCXX]</char,>

# 7.1.139 Class num\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

### 7.1.139.1 Class data for num\_get<wchar\_t, istreambuf iterator<wchar t, char traits<wchar t>>>

The virtual table for the std::num\_get<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::num\_get<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described by <a href="Table 7-225">Table 7-225</a>

Table 7-225 typeinfo for num\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char traits<wchar t>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	<pre>typeinfo name for num_get<wchar_t, char_traits<wchar_t="" istreambuf_iterator<wchar_t,="">&gt;&gt;</wchar_t,></pre>
basetype:	typeinfo for locale::facet

# 7.1.139.2 Interfaces for Class num\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::num\_get<wchar\_t, std::istreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > specified in Table 7-226, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-226 libstdcxx - Class num\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >> Function Interfaces

num\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::num\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

num\_get<wchar\_t, istreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>
>::num\_get(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.140 Class num\_put<char, ostreambuf\_iterator<char, char\_traits<char> > >

# 7.1.140.1 Class data for num\_put<char, ostreambuf\_iterator<char, char\_traits<char> > >

The virtual table for the std::num\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> >> class is described in the generic part of this specification.

The Run Time Type Information for the std::num\_put<char, std::ostreambuf\_it-erator<char, std::char\_traits<char> >> class is described by <a href="Table 7-227">Table 7-227</a>

Table 7-227 typeinfo for num\_put<char, ostreambuf\_iterator<char, char\_traits<char>>>

Base Vtable	vtable for cxxabiv1::si_class_type_info
Name	typeinfo name for num_put <char, char_traits<char="" ostreambuf_iterator<char,=""> &gt;&gt;</char,>
basetype:	typeinfo for locale::facet

# 7.1.140.2 Interfaces for Class num\_put<char, ostreambuf\_iterator<char, char\_traits<char>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::num\_put<char, std::ostreambuf\_iterator<char, std::char\_traits<char> > specified in <a href="Table 7-228">Table 7-228</a>, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-228 libstdcxx - Class num\_put<char, ostreambuf\_iterator<char, char\_traits<char>>> Function Interfaces

num\_put<char, ostreambuf\_iterator<char, char\_traits<char> >
>::\_M\_group\_int(char const\*, unsigned int, char, ios\_base&, char\*, char\*, int&) const(GLIBCXX\_3.4) [ISOCXX]

num\_put<char, ostreambuf\_iterator<char, char\_traits<char> >
::\_M\_group\_float(char const\*, unsigned int, char, char const\*, char\*, int&) const(GLIBCXX\_3.4) [ISOCXX]

num\_put<char, ostreambuf\_iterator<char, char\_traits<char> >
::\_M\_pad(char, int, ios\_base&, char\*, char const\*, int&) const(GLIBCXX\_3.4)
[ISOCXX]

num\_put<char, ostreambuf\_iterator<char, char\_traits<char>>
>::num\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

num\_put<char, ostreambuf\_iterator<char, char\_traits<char>>
>::num\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

# 7.1.141 Class num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >

# 7.1.141.1 Class data for num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

The virtual table for the std::num\_put<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described in the generic part of this specification.

The Run Time Type Information for the std::num\_put<wchar\_t, std::ostream-buf\_iterator<wchar\_t, std::char\_traits<wchar\_t> > class is described by <u>Table 7-229</u>

### Table 7-229 typeinfo for num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char traits<wchar t>>>

Base Vtable	vtable for
-------------	------------

	cxxabiv1::si_class_type_info	
Name	<pre>typeinfo name for num_put<wchar_t, char_traits<wchar_t="" ostreambuf_iterator<wchar_t,="">&gt;&gt;</wchar_t,></pre>	
basetype:	typeinfo for locale::facet	

### 7.1.141.2 Interfaces for Class num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::num\_put<wchar\_t, std::ostreambuf\_iterator<wchar\_t, std::char\_traits<wchar\_t> >> specified in Table 7-230, with the full mandatory functionality as described in the referenced underlying specification.

### Table 7-230 libstdcxx - Class num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >> Function Interfaces

num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>> >::\_M\_group\_int(char const\*, unsigned int, wchar\_t, ios\_base&, wchar\_t\*, wchar\_t\*, int&) const(GLIBCXX\_3.4) [ISOCXX]

num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t>> >::\_M\_group\_float(char const\*, unsigned int, wchar\_t, wchar\_t const\*, wchar\_t\*, wchar\_t\*, int&) const(GLIBCXX\_3.4) [ISOCXX]

num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> > ::\_M\_pad(wchar\_t, int, ios\_base&, wchar\_t\*, wchar\_t const\*, int&) const(GLIBCXX\_3.4) [ISOCXX]

num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >
::num\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

num\_put<wchar\_t, ostreambuf\_iterator<wchar\_t, char\_traits<wchar\_t> >
::num\_put(unsigned int)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.142 Class gslice

#### 7.1.142.1 Class data for gslice

#### 7.1.142.2 Interfaces for Class gslice

An LSB conforming implementation shall provide the architecture specific methods for Class std::gslice specified in <u>Table 7-231</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-231 libstdcxx - Class gslice Function Interfaces

gslice::\_Indexer::\_Indexer(unsigned int, valarray<unsigned int> const&, valarray<unsigned int> const&)(GLIBCXX\_3.4) [ISOCXX]

gslice::\_Indexer::\_Indexer(unsigned int, valarray<unsigned int> const&, valarray<unsigned int> const&)(GLIBCXX\_3.4) [ISOCXX]

### 7.1.143 Class \_\_basic\_file<char>

#### 7.1.143.1 Class data for \_\_basic\_file<char>

#### 7.1.143.2 Interfaces for Class \_\_basic\_file<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::\_basic\_file<char> specified in <a href="Table 7-232">Table 7-232</a>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-232 libstdcxx - Class \_\_basic\_file<char> Function Interfaces

basic_file <char>::xsgetn(char*, int)(GLIBCXX_3.4) [ISOCXX]</char>		
basic_file <char>::xsputn(char const*, int)(GLIBCXX_3.4) [ISOCXX]</char>		
basic_file <char>::seekoff(long long, _Ios_Seekdir)(GLIBCXX_3.4) [ISOCXX]</char>		
basic_file <char>::xsputn_2(char const*, int, char const*, int)(GLIBCXX_3.4) [ISOCXX]</char>		

### 7.1.144 Class \_List\_node\_base

#### 7.1.144.1 Interfaces for Class \_List\_node\_base

No external methods are defined for libstdcxx - Class std::\_List\_node\_base in this part of the specification. See also the generic specification.

### 7.1.145 Class valarray<unsigned int>

#### 7.1.145.1 Class data for valarray<unsigned int>

#### 7.1.145.2 Interfaces for Class valarray<unsigned int>

An LSB conforming implementation shall provide the architecture specific methods for Class std::valarray<unsigned int> specified in <u>Table 7-233</u>, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-233 libstdcxx - Class valarray<unsigned int> Function Interfaces

valarray <unsigned int="">::size() const(GLIBCXX_3.4) [ISOCXX]</unsigned>		
valarray <unsigned int="">::valarray(valarray<unsigned int=""> const&amp;) (GLIBCXX_3.4) [ISOCXX]</unsigned></unsigned>		
valarray <unsigned int="">::valarray(unsigned int)(GLIBCXX_3.4) [ISOCXX]</unsigned>		
valarray <unsigned int="">::valarray(valarray<unsigned int=""> const&amp;) (GLIBCXX_3.4) [ISOCXX]</unsigned></unsigned>		
valarray <unsigned int="">::valarray(unsigned int)(GLIBCXX_3.4) [ISOCXX]</unsigned>		
valarray <unsigned int="">::~valarray()(GLIBCXX_3.4) [ISOCXX]</unsigned>		
valarray <unsigned int="">::~valarray()(GLIBCXX_3.4) [ISOCXX]</unsigned>		
valarray <unsigned int="">::operator[](unsigned int)(GLIBCXX_3.4) [ISOCXX]</unsigned>		

#### 7.1.146 Class allocator<char>

#### 7.1.146.1 Class data for allocator<char>

#### 7.1.146.2 Interfaces for Class allocator<char>

No external methods are defined for libstdcxx - Class std::allocator<char> in this part of the specification. See also the generic specification.

### 7.1.147 Class allocator<wchar\_t>

#### 7.1.147.1 Class data for allocator<wchar\_t>

#### 7.1.147.2 Interfaces for Class allocator<wchar\_t>

No external methods are defined for libstdcxx - Class std::allocator<wchar\_t> in this part of the specification. See also the generic specification.

### 7.1.148 Class gnu cxx:: pool<true>

#### 7.1.148.1 Interfaces for Class \_\_gnu\_cxx::\_\_pool<true>

An LSB conforming implementation shall provide the architecture specific methods for Class \_\_gnu\_cxx::\_pool<true> specified in <u>Table 7-234</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-234 libstdcxx - Class \_\_gnu\_cxx::\_\_pool<true> Function Interfaces

```
__gnu_cxx::__pool<true>::_M_reclaim_block(char*, unsigned int)
(GLIBCXX_3.4.4) [LSB]

__gnu_cxx::__pool<true>::_M_reserve_block(unsigned int, unsigned int)
(GLIBCXX_3.4.4) [LSB]
```

### 7.1.149 Class gnu cxx:: pool<false>

#### 7.1.149.1 Interfaces for Class \_\_gnu\_cxx::\_\_pool<false>

An LSB conforming implementation shall provide the architecture specific methods for Class \_\_gnu\_cxx::\_pool<false> specified in <u>Table 7-235</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-235 libstdcxx - Class \_\_gnu\_cxx::\_\_pool<false> Function Interfaces

```
__gnu_cxx::__pool<false>::_M_reclaim_block(char*, unsigned int)
(GLIBCXX_3.4.4) [LSB]
__gnu_cxx::__pool<false>::_M_reserve_block(unsigned int, unsigned int)
(GLIBCXX_3.4.4) [LSB]
```

### 7.1.150 Class \_\_gnu\_cxx::free\_list

#### 7.1.150.1 Interfaces for Class \_\_gnu\_cxx::free\_list

An LSB conforming implementation shall provide the architecture specific methods for Class \_\_gnu\_cxx::free\_list specified in <u>Table 7-236</u>, with the full

mandatory functionality as described in the referenced underlying specification.

#### Table 7-236 libstdcxx - Class \_\_gnu\_cxx::free\_list Function Interfaces

\_gnu\_cxx::free\_list::\_M\_get(unsigned int)(GLIBCXX\_3.4.4) [LSB]

### 7.1.151 Class locale::\_Impl

#### 7.1.151.1 Interfaces for Class locale:: Impl

An LSB conforming implementation shall provide the architecture specific methods for Class std::locale::\_Impl specified in <u>Table 7-237</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-237 libstdcxx - Class locale::\_Impl Function Interfaces

locale::\_Impl::\_M\_install\_cache(locale::facet const\*, unsigned int) (GLIBCXX\_3.4.7) [ISOCXX]

### 7.1.152 Namespace std Functions

#### 7.1.152.1 Interfaces for Namespace std Functions

An LSB conforming implementation shall provide the architecture specific methods for Namespace std Functions specified in <u>Table 7-238</u>, with the full mandatory functionality as described in the referenced underlying specification.

#### Table 7-238 libstdcxx - Namespace std Functions Function Interfaces

int \_\_copy\_streambufs<char, char\_traits<char> >(basic\_streambuf<char, char\_traits<char> >\*, basic\_streambuf<char, char\_traits<char> >\*)
(GLIBCXX\_3.4.6) [ISOCXX]

int \_\_copy\_streambufs<wchar\_t, char\_traits<wchar\_t>
>(basic\_streambuf<wchar\_t, char\_traits<wchar\_t> >\*,
basic\_streambuf<wchar\_t, char\_traits<wchar\_t> >\*)(GLIBCXX\_3.4.6)
[ISOCXX]

### 7.1.153 Class char\_traits<char>

#### 7.1.153.1 Interfaces for Class char traits<char>

No external methods are defined for libstdcxx - Class std::char\_traits<char> in this part of the specification. See also the generic specification.

### 7.1.154 Class char\_traits<wchar\_t>

#### 7.1.154.1 Interfaces for Class char\_traits<wchar\_t>

No external methods are defined for libstdcxx - Class std::char\_traits<wchar\_t> in this part of the specification. See also the generic specification.

#### 7.2 Interface Definitions for libstdcxx

The interfaces defined on the following pages are included in libstdcxx and are defined by this specification. Unless otherwise noted, these interfaces shall be included in the source standard.

Other interfaces listed in Section 7.1 shall behave as described in the referenced

the generic part of the specification.	

base document. For interfaces referencing LSB and not listed below, please see

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