

Linux Standard Base C++ Specification 4.1

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Foreword

This is version 4.1 of the Linux Standard Base C++ Specification. This specification is one of a series of volumes under the collective title *Linux Standard Base*:

- Core
- C++
- Desktop
- Languages
- Printing

Note that the Core, C++ and Desktop volumes consist of a generic volume augmented by an architecture-specific volume.

Status of this Document

This is a released specification. Other documents may supersede or augment this specification. A list of current Linux Standard Base (LSB) specifications is available at <http://refspecs.linuxfoundation.org> (<http://refspecs.linuxfoundation.org/>).

If you wish to make comments regarding this document in a manner that is tracked by the LSB project, please submit them using our public bug database at <http://bugs.linuxbase.org>. Please enter your feedback, carefully indicating the title of the section for which you are submitting feedback, and the volume and version of the specification where you found the problem, quoting the incorrect text if appropriate. If you are suggesting a new feature, please indicate what the problem you are trying to solve is. That is more important than the solution, in fact.

If you do not have or wish to create a bug database account then you can also e-mail feedback to [<lsb-discuss@lists.linuxfoundation.org>](mailto:lsb-discuss@lists.linuxfoundation.org) (subscribe (<http://lists.linux-foundation.org/mailman/listinfo/lsb-discuss>), archives (<http://lists.linux-foundation.org/pipermail/lsb-discuss/>)), and arrangements will be made to transpose the comments to our public bug database.

Introduction

The LSB defines a binary interface for application programs that are compiled and packaged for LSB-conforming implementations on many different hardware architectures. A binary specification must include information specific to the computer processor architecture for which it is intended. To avoid the complexity of conditional descriptions, the specification has instead been divided into generic parts which are augmented by one of several architecture-specific parts, depending on the target processor architecture; the generic part will indicate when reference must be made to the architecture part, and vice versa.

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:

1. The first number (x) is the major version number. Versions sharing the same major version number shall be compatible in a backwards direction; that is, a newer version shall be compatible with an older version. Any deletion of a library results in a new major version number. Interfaces marked as deprecated may be removed from the specification at a major version change.
2. The second number (y) is the minor version number. Libraries and individual interfaces may be added, but not removed. Interfaces may be marked as deprecated at a minor version change. Other minor changes may be permitted at the discretion of the LSB workgroup.
3. 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.

LSB is a trademark of the Linux Foundation. Developers of applications or implementations interested in using the trademark should see the Linux Foundation Certification Policy for details.

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") 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 Languages --C | |
| ISO/IEC 14882: 2003 C++ Language | ISO/IEC 14882: 2003 Programming languages --C++ | |
| Itanium™ C++ ABI | Itanium™ C++ ABI (Revision 1.86) | http://refspecs.linuxfoundation.org/cxxabi-1.86.html |
| POSIX 1003.1-2001 (ISO/IEC 9945-2003) | ISO/IEC 9945-1:2003 Information technology -- Portable Operating System Interface (POSIX) -- Part 1: Base Definitions 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: Rationale Including Technical Cor. 1: 2004 | http://www.unix.org/version3/ |

3 Requirements

3.1 Relevant Libraries

The libraries listed in Table 3-1 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 Terms and Definitions

For the purposes of this document, the terms given in *ISO/IEC Directives, Part 2, Annex H* and the following apply.

archLSB

Some LSB specification documents have both a generic, architecture-neutral part and an architecture-specific part. The latter describes elements whose definitions may be unique to a particular processor architecture. The term archLSB may be used in the generic part to refer to the corresponding section of the architecture-specific part.

Binary Standard, ABI

The total set of interfaces that are available to be used in the compiled binary code of a conforming application, including the run-time details such as calling conventions, binary format, C++ name mangling, etc.

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, API

The total set of interfaces that are available to be used in the source code of a conforming application. Due to translations, the Binary Standard and the Source Standard may contain some different interfaces.

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.

4 Terms and Definitions

In addition, for the portions of this specification which build on IEEE Std 1003.1-2001, the definitions given in *IEEE Std 1003.1-2001, Base Definitions, Chapter 3* apply.

5 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,

| |
|---|
| <code>forkpty(GLIBC_2.0) [SUSv3]</code> |
|---|

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 Low Level System Information

6 C++ Class Representations

6.1 C++ Data Representation

Support for the C++ language shall be as specified in Itanium™ C++ ABI.

Note: This document, although containing a few architecture specific matters, is written as a generic specification, to be usable by C++ implementations on a variety of architectures.

This section provides additional information to supplement Itanium™ C++ ABI. Many of the definitions in that document are made in terms of C++. This section provides addition explanations using C terms to avoid self-referential problems.

6.1.1 Class Representation

An object file generated by the compilation process for a C++ program shall contain several closely related internal objects, or Class Components, to represent each C++ Class. Such objects are not a visible part of the source code. Table 6-1 describes these Class Components at a high level.

Table 6-1 Class Components

| Object | Contains |
|----------------------------|---|
| Class Data | All non-static Class members |
| Virtual Table | Information needed to dispatch virtual functions, access virtual base class subobjects and to access the RTTI information |
| RTTI | Run-Time Type Information used by the typeid and dynamic_cast operators, and exception handlers |
| Typeinfo Name | String representation of Class name |
| Construction Virtual Table | Information needed during construction and destruction of Classes with non-trivial inheritance relationships. |
| VTT | A table of virtual table pointers which holds the addresses of construction and non-construction virtual tables. |

6.1.1.1 Virtual Table

Virtual tables are specified in Section 2.5.3 of Itanium™ C++ ABI.

Of the various categories of virtual table described in that specification, Category 1 (Leaf) is further described in Figure 6-1 and Category 2 (Non-virtual bases only) is further described in Figure 6-2. LSB conforming systems shall support these categories.

```
struct {  
    ptrdiff_t      baseobject;  
    const char     *typeinfo;
```

```

        fptr          virtfuncs[0];
    };

```

Figure 6-1 Category 1 Virtual Table

```

struct {
    unsigned long    vcalloffset;
    ptrdiff_t        baseobject;
    const char       *typeinfo;
    fptr             virtfuncs[0];
};

```

Figure 6-2 Category 2 Virtual Table

This specification describes requirements for virtual tables of C++ classes using tables of the following form:

Table 6-2 Primary vtable for K (example)

| | |
|---------------------|----------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for K |
| vfunc[0]: | K::~K() |
| vfunc[1]: | K::~K() |
| vfunc[2]: | K::m1(int*) |
| vfunc[3]: | X::m2() |
| vfunc[4]: | __cxa_pure_virtual() |
| vfunc[5]: | NULL or X::m4(int) |

Each row starting from 'vfunc[i]:' refers to a vtable entry 'vfunc[i]' of a class K, which is an entry for a virtual function A::m, where A is a base class of the class K as described in the Itanium™ C++ ABI. This specification requires implementations to interpret the vtable entry information in the following way:

1. A conforming implementation shall contain a vtable of the class K in the specified shared library;
 2. The corresponding entry of this vtable 'vfunc[i]' shall be an entry for the virtual function A::m;
 3. If the second column of the row contains __cxa_pure_virtual() the corresponding vtable entry of a LSB-conforming implementation shall contain __cxa_pure_virtual() or 'Y::m', where Y is the class K, the class A or a base class of the class K derived from the class A. ¹
- 1 In this case virtual function A::m in class K is considered to be specified as pure virtual by this specification.
4. If the second column of the row contains 'X::m' the corresponding vtable entry of a LSB-conforming implementation shall contain 'Y::m', where Y is the class K, the class X or a base class of the class K derived from the class X.
 5. If the second column of the row contains 'NULL or X::m' the corresponding vtable entry of a LSB-conforming implementation shall contain NULL or 'Y::m', where Y is the class K, the class X or a base class of the class K derived from the class X. ²

- 2 In this case virtual function A::m in class K is considered to be specified as inline by this specification.

An application may use any non-pure virtual function specified in this specification, and can expect the specified behavior irrespective of which particular method implements this functionality. An application may not use inline virtual functions at the binary level since its vtable entry may be NULL.

6.1.1.2 Run-Time Type Information

Each type used in a C++ program has a data structure associated with it that provide information about the type which is used at runtime. This Run Time Type Information (RTTI) is defined in section 2.9.5 in Itanium™ C++ ABI. Additional details about the layout of this data is provided here.

```
struct {
    void      *basevtable;
    char      *name;
};
```

Figure 6-3 Run-Time Type Information Prefix

```
struct {
    void      *basevtable;
    char      *name;
    void      *basetypeinfo[0];
};
```

Figure 6-4 Run-Time Type Information For Classes with no base class

```
struct {
    void      *basevtable;
    char      *name;
    void      *basetype;
    void      *basetypeinfo[0];
};
```

Figure 6-5 Run-Time Type Information for Classes with a single base class

```
struct base_type_info {
    char      *base_type;
    unsigned long  offset_flags;
};

struct {
    void      *basevtable;
    char      *name;
    unsigned int  flags;
    unsigned int  base_count;
    struct base_type_info base_info[0];
};
```

Figure 6-6 Run-Time Type Information for classes with multiple inheritance

```
struct {
    void      *basevtable;
    char      *name;
    unsigned int  flags;
    void      *pointee;
    void      *basetypeinfo[0];
};
```

Figure 6-7 Run-Time Type Information for pointer types

```
struct {
    void      *basevtable;
    char      *name;
```

```
        unsigned int    flags;  
        void            *pointee;  
        void            *context;  
        void            *basetypeinfo[0];  
};
```

Figure 6-8 Run-Time Type Information for pointer to member types

7 Symbol Mapping

This chapter defines how names are mapped from the source symbol to the object symbol.

7.1 Symbol Mapping

Symbols in a source program are translated by the compilation system into symbols that exist in the object file. The rules for this translation are defined here.

7.1.1 C++ Language

External symbol names in a C++ object file shall be encoded according to the "name mangling" rules described in the Itanium™ C++ ABI.

III Base Libraries

8 Libraries

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

8.1 Interfaces for libstdcxx

Table 8-1 defines the library name and shared object name for the libstdcxx library

Table 8-1 libstdcxx Definition

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

Unless stated otherwise, all symbols are in the `std::` namespace.

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

[CXXABI-1.86] Itanium™ C++ ABI
[ISOCXX] ISO/IEC 14882: 2003 C++ Language
[LSB] ISO/IEC 23360 Part 1

8.1.1 C++ Runtime Support

8.1.1.1 Interfaces for C++ Runtime Support

An LSB conforming implementation shall provide the generic methods for C++ Runtime Support specified in Table 8-2, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-2 libstdcxx - C++ Runtime Support Function Interfaces

| |
|--|
| <code>__gnu_cxx::__atomic_add(int volatile*, int)</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>__gnu_cxx::__exchange_and_add(int volatile*, int)</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>__gnu_cxx::__verbose_terminate_handler()</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>unexpected()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>set_terminate(void (*)())</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>set_unexpected(void (*)())</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>set_new_handler(void (*)())</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__throw_bad_cast()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__throw_bad_alloc()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__throw_bad_typeid()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>uncaught_exception()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__throw_ios_failure(char const*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__throw_logic_error(char const*)</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>__throw_range_error(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_domain_error(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_length_error(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_out_of_range(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_bad_exception()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_runtime_error(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_overflow_error(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_underflow_error(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__throw_invalid_argument(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>terminate()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>operator delete[](void*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>operator delete[](void*, nothrow_t const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>operator delete(void*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>operator delete(void*, nothrow_t const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__cxa_allocate_exception(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_bad_cast(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_bad_typeid(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_begin_catch(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_call_unexpected(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_current_exception_type(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_demangle(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_end_catch(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_free_exception(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_get_exception_ptr(CXXABI_1.3.1) [CXXABI-1.86]</code> |
| <code>__cxa_get_globals(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_get_globals_fast(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_guard_abort(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_guard_acquire(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_guard_release(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_pure_virtual(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_rethrow(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_throw(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_vec_ctor(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxa_vec_cleanup(CXXABI_1.3) [CXXABI-1.86]</code> |

| |
|---|
| <code>__cxa_vec_ctor(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxa_vec_delete(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxa_vec_delete2(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxa_vec_delete3(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxa_vec_dtor(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxa_vec_new(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxa_vec_new2(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxa_vec_new3(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__dynamic_cast(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__gxx_personality_v0(CXXABI_1.3)</code> [CXXABI-1.86] |

An LSB conforming implementation shall provide the generic data interfaces for C++ Runtime Support specified in Table 8-3, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-3 libstdc++ - C++ Runtime Support Data Interfaces

| |
|--|
| <code>cin(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>cerr(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>clog(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>cout(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>wcin(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>wcerr(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>wclog(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>wcout(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>nothrow(GLIBCXX_3.4)</code> [ISOCXX] |

8.1.2 C++ type descriptors for built-in types

8.1.2.1 Interfaces for C++ type descriptors for built-in types

No external methods are defined for libstdc++ - C++ type descriptors for built-in types in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for C++ type descriptors for built-in types specified in Table 8-4, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-4 libstdc++ - C++ type descriptors for built-in types Data Interfaces

| |
|--|
| <code>typeinfo for signed char const*(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>typeinfo for bool const*(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>typeinfo for char const*(CXXABI_1.3)</code> [CXXABI-1.86] |

| |
|--|
| typeinfo for double const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long double const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for float const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned char const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for int const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned int const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for short const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned short const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for void const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for wchar_t const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned long long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for signed char*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for bool*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for char*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for double*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long double*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for float*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned char*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for int*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned int*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for short*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned short*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for void*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for wchar_t*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned long long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for signed char(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for bool(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for char(CXXABI_1.3) [CXXABI-1.86] |

| |
|---|
| typeinfo for double(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long double(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for float(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned char(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for int(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned int(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned long(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for short(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned short(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for void(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for wchar_t(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for long long(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo for unsigned long long(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for signed char const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for bool const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for char const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for double const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long double const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for float const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned char const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for int const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned int const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for short const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned short const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for void const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for wchar_t const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned long long const*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for signed char*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for bool*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for char*(CXXABI_1.3) [CXXABI-1.86] |

| |
|---|
| typeinfo name for double*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long double*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for float*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned char*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for int*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned int*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for short*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned short*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for void*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for wchar_t*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned long long*(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for signed char(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for bool(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for char(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for double(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long double(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for float(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned char(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for int(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned int(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned long(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for short(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned short(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for void(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for wchar_t(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for long long(CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for unsigned long long(CXXABI_1.3) [CXXABI-1.86] |

8.1.3 C++ `_Rb_tree`

8.1.3.1 Interfaces for C++ `_Rb_tree`

An LSB conforming implementation shall provide the generic methods for C++ `_Rb_tree` specified in Table 8-5, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-5 `libstdc++` - C++ `_Rb_tree` Function Interfaces

| |
|--|
| <code>_Rb_tree_decrement(_Rb_tree_node_base const*)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_decrement(_Rb_tree_node_base*)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_increment(_Rb_tree_node_base const*)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_increment(_Rb_tree_node_base*)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_black_count(_Rb_tree_node_base const*, _Rb_tree_node_base const*)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_rotate_left(_Rb_tree_node_base*, _Rb_tree_node_base*&)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_rotate_right(_Rb_tree_node_base*, _Rb_tree_node_base*&)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_rebalance_for_erase(_Rb_tree_node_base*, _Rb_tree_node_base&)(GLIBCXX_3.4) [LSB]</code> |
| <code>_Rb_tree_insert_and_rebalance(bool, _Rb_tree_node_base*, _Rb_tree_node_base*, _Rb_tree_node_base&)(GLIBCXX_3.4) [LSB]</code> |

8.1.4 Class `type_info`

8.1.4.1 Class data for `type_info`

The virtual table for the `std::type_info` class is described by Table 8-6

Table 8-6 Primary vtable for `type_info`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo</code> for <code>type_info</code> |
| <code>vfunc[0]:</code> | <code>type_info::~~type_info()</code> |
| <code>vfunc[1]:</code> | <code>type_info::~~type_info()</code> |
| <code>vfunc[2]:</code> | <code>type_info::__is_pointer_p() const</code> |
| <code>vfunc[3]:</code> | <code>type_info::__is_function_p() const</code> |
| <code>vfunc[4]:</code> | <code>type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| <code>vfunc[5]:</code> | <code>type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |

The Run Time Type Information for the `std::type_info` class is described by Table 8-7

Table 8-7 typeid for type_info

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__class_type_info |
| Name | typeid name for type_info |

8.1.4.2 Interfaces for Class type_info

An LSB conforming implementation shall provide the generic methods for Class `std::type_info` specified in Table 8-8, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-8 libstdc++ - Class type_info Function Interfaces

| |
|---|
| <code>type_info::__do_catch(type_info const*, void**, unsigned int)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>type_info::__is_pointer_p()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>type_info::__is_function_p()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>type_info::~type_info()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>type_info::~type_info()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>type_info::~type_info()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::type_info` specified in Table 8-9, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-9 libstdc++ - Class type_info Data Interfaces

| |
|---|
| <code>typeid for type_info(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for type_info(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for type_info(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.5 Class __cxxabiv1::__enum_type_info**8.1.5.1 Class data for __cxxabiv1::__enum_type_info**

The virtual table for the `__cxxabiv1::__enum_type_info` class is described by Table 8-10

Table 8-10 Primary vtable for __cxxabiv1::__enum_type_info

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeid for __cxxabiv1::__enum_type_info |
| <code>vfunc[0]:</code> | <code>__cxxabiv1::__enum_type_info::~enum_type_info()</code> |

| | |
|-----------|--|
| vfunc[1]: | __cxxabiv1::__enum_type_info::~__enum_type_info() |
| vfunc[2]: | type_info::__is_pointer_p() const |
| vfunc[3]: | type_info::__is_function_p() const |
| vfunc[4]: | type_info::__do_catch(type_info const*, void**, unsigned int) const |
| vfunc[5]: | type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const |

The Run Time Type Information for the `__cxxabiv1::__enum_type_info` class is described by Table 8-11

Table 8-11 typeinfo for `__cxxabiv1::__enum_type_info`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__enum_type_info</code> |

8.1.5.2 Interfaces for Class `__cxxabiv1::__enum_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__enum_type_info` specified in Table 8-12, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-12 libstdcxx - Class `__cxxabiv1::__enum_type_info` Function Interfaces

| |
|---|
| <code>__cxxabiv1::__enum_type_info::~__enum_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__enum_type_info::~__enum_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__enum_type_info::~__enum_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__enum_type_info` specified in Table 8-13, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-13 libstdcxx - Class `__cxxabiv1::__enum_type_info` Data Interfaces

| |
|--|
| typeinfo for <code>__cxxabiv1::__enum_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for <code>__cxxabiv1::__enum_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| vtable for <code>__cxxabiv1::__enum_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |

8.1.6 Class `__cxxabiv1::__array_type_info`

8.1.6.1 Class data for `__cxxabiv1::__array_type_info`

The virtual table for the `__cxxabiv1::__array_type_info` class is described by Table 8-14

Table 8-14 Primary vtable for `__cxxabiv1::__array_type_info`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__array_type_info</code> |
| <code>vfunc[0]:</code> | <code>__cxxabiv1::__array_type_info::~~array_type_info()</code> |
| <code>vfunc[1]:</code> | <code>__cxxabiv1::__array_type_info::~~array_type_info()</code> |
| <code>vfunc[2]:</code> | <code>type_info::__is_pointer_p() const</code> |
| <code>vfunc[3]:</code> | <code>type_info::__is_function_p() const</code> |
| <code>vfunc[4]:</code> | <code>type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| <code>vfunc[5]:</code> | <code>type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |

The Run Time Type Information for the `__cxxabiv1::__array_type_info` class is described by Table 8-15

Table 8-15 typeinfo for `__cxxabiv1::__array_type_info`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__array_type_info</code> |

8.1.6.2 Interfaces for Class `__cxxabiv1::__array_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__array_type_info` specified in Table 8-16, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-16 libstdcxx - Class `__cxxabiv1::__array_type_info` Function Interfaces

| |
|---|
| <code>__cxxabiv1::__array_type_info::~~array_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__array_type_info::~~array_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__array_type_info::~~array_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__array_type_info` specified in Table 8-17, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-17 libstdc++ - Class `__cxxabiv1::__array_type_info` Data Interfaces

| |
|---|
| typeinfo for <code>__cxxabiv1::__array_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for <code>__cxxabiv1::__array_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| vtable for <code>__cxxabiv1::__array_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |

8.1.7 Class `__cxxabiv1::__class_type_info`

8.1.7.1 Class data for `__cxxabiv1::__class_type_info`

The virtual table for the `__cxxabiv1::__class_type_info` class is described by Table 8-18

Table 8-18 Primary vtable for `__cxxabiv1::__class_type_info`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__class_type_info</code> |
| vfunc[0]: | <code>__cxxabiv1::__class_type_info::~__class_type_info()</code> |
| vfunc[1]: | <code>__cxxabiv1::__class_type_info::~__class_type_info()</code> |
| vfunc[2]: | <code>type_info::__is_pointer_p() const</code> |
| vfunc[3]: | <code>type_info::__is_function_p() const</code> |
| vfunc[4]: | <code>__cxxabiv1::__class_type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| vfunc[5]: | <code>__cxxabiv1::__class_type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |
| vfunc[6]: | <code>__cxxabiv1::__class_type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__upcast_result&) const</code> |

The Run Time Type Information for the `__cxxabiv1::__class_type_info` class is described by Table 8-19

Table 8-19 typeinfo for `__cxxabiv1::__class_type_info`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
|-------------|--|

| | |
|------|--|
| Name | typeinfo name for __cxxabiv1::__class_type_info |
|------|--|

8.1.7.2 Interfaces for Class `__cxxabiv1::__class_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__class_type_info` specified in Table 8-20, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-20 libstdc++ - Class `__cxxabiv1::__class_type_info` Function Interfaces

| |
|--|
| <code>__cxxabiv1::__class_type_info::~__class_type_info()</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__class_type_info::~__class_type_info()</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__class_type_info::~__class_type_info()</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__class_type_info::__do_catch(type_info const*, void**, unsigned int) const</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__class_type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__upcast_result&) const</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__class_type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> (CXXABI_1.3) [CXXABI-1.86] |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__class_type_info` specified in Table 8-21, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-21 libstdc++ - Class `__cxxabiv1::__class_type_info` Data Interfaces

| |
|---|
| typeinfo for <code>__cxxabiv1::__class_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for <code>__cxxabiv1::__class_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| vtable for <code>__cxxabiv1::__class_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |

8.1.8 Class `__cxxabiv1::__pbase_type_info`

8.1.8.1 Class data for `__cxxabiv1::__pbase_type_info`

The virtual table for the `__cxxabiv1::__pbase_type_info` class is described by Table 8-22

Table 8-22 Primary vtable for `__cxxabiv1::__pbase_type_info`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__pbase_type_info</code> |
| vfunc[0]: | <code>__cxxabiv1::__pbase_type_info::~__pbase_type_info()</code> |

| | |
|-----------|---|
| vfunc[1]: | <code>__cxxabiv1::__pbase_type_info::~~pbase_type_info()</code> |
| vfunc[2]: | <code>type_info::__is_pointer_p() const</code> |
| vfunc[3]: | <code>type_info::__is_function_p() const</code> |
| vfunc[4]: | <code>__cxxabiv1::__pbase_type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| vfunc[5]: | <code>type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |
| vfunc[6]: | <code>__cxxabiv1::__pbase_type_info::__pointer_catch(__cxxabiv1::__pbase_type_info const*, void**, unsigned int) const</code> |

The Run Time Type Information for the `__cxxabiv1::__pbase_type_info` class is described by Table 8-23

Table 8-23 typeid for `__cxxabiv1::__pbase_type_info`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeid name for <code>__cxxabiv1::__pbase_type_info</code> |

8.1.8.2 Interfaces for Class `__cxxabiv1::__pbase_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__pbase_type_info` specified in Table 8-24, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-24 libstdc++ - Class `__cxxabiv1::__pbase_type_info` Function Interfaces

| |
|---|
| <code>__cxxabiv1::__pbase_type_info::~~pbase_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__pbase_type_info::~~pbase_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__pbase_type_info::~~pbase_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__pbase_type_info::__do_catch(type_info const*, void**, unsigned int) const(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__pbase_type_info::__pointer_catch(__cxxabiv1::__pbase_type_info const*, void**, unsigned int) const(CXXABI_1.3) [CXXABI-1.86]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__pbase_type_info` specified in Table 8-25, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-25 libstdc++ - Class `__cxxabiv1::__pbase_type_info` Data Interfaces

| |
|---|
| typeinfo for <code>__cxxabiv1::__pbase_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for <code>__cxxabiv1::__pbase_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| vtable for <code>__cxxabiv1::__pbase_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |

8.1.9 Class `__cxxabiv1::__pointer_type_info`

8.1.9.1 Class data for `__cxxabiv1::__pointer_type_info`

The virtual table for the `__cxxabiv1::__pointer_type_info` class is described by Table 8-26

Table 8-26 Primary vtable for `__cxxabiv1::__pointer_type_info`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__pointer_type_info</code> |
| vfunc[0]: | <code>__cxxabiv1::__pointer_type_info::~~__pointer_type_info()</code> |
| vfunc[1]: | <code>__cxxabiv1::__pointer_type_info::~~__pointer_type_info()</code> |
| vfunc[2]: | <code>__cxxabiv1::__pointer_type_info::__is_pointer_p() const</code> |
| vfunc[3]: | <code>type_info::__is_function_p() const</code> |
| vfunc[4]: | <code>__cxxabiv1::__pbase_type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| vfunc[5]: | <code>type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |
| vfunc[6]: | <code>__cxxabiv1::__pointer_type_info::__pointer_catch(__cxxabiv1::__pbase_type_info const*, void**, unsigned int) const</code> |

The Run Time Type Information for the `__cxxabiv1::__pointer_type_info` class is described by Table 8-27

Table 8-27 typeinfo for `__cxxabiv1::__pointer_type_info`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__pointer_type_info</code> |

8.1.9.2 Interfaces for Class `__cxxabiv1::__pointer_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__pointer_type_info` specified in Table 8-28, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-28 libstdcxx - Class `__cxxabiv1::__pointer_type_info` Function Interfaces

| |
|---|
| <code>__cxxabiv1::__pointer_type_info::~~__pointer_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__pointer_type_info::~~__pointer_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__pointer_type_info::~~__pointer_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__pointer_type_info::__is_pointer_p() const(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__pointer_type_info::__pointer_catch(__cxxabiv1::__pbase_type_info const*, void**, unsigned int) const(CXXABI_1.3)</code> [CXXABI-1.86] |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__pointer_type_info` specified in Table 8-29, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-29 libstdcxx - Class `__cxxabiv1::__pointer_type_info` Data Interfaces

| |
|--|
| <code>typeinfo for __cxxabiv1::__pointer_type_info(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>typeinfo name for __cxxabiv1::__pointer_type_info(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>vtable for __cxxabiv1::__pointer_type_info(CXXABI_1.3)</code> [CXXABI-1.86] |

8.1.10 Class `__cxxabiv1::__function_type_info`

8.1.10.1 Class data for `__cxxabiv1::__function_type_info`

The virtual table for the `__cxxabiv1::__function_type_info` class is described by Table 8-30

Table 8-30 Primary vtable for `__cxxabiv1::__function_type_info`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo for __cxxabiv1::__function_type_info</code> |
| <code>vfunc[0]:</code> | <code>__cxxabiv1::__function_type_info::~~__function_type_info()</code> |
| <code>vfunc[1]:</code> | <code>__cxxabiv1::__function_type_info::~~__function_type_info()</code> |
| <code>vfunc[2]:</code> | <code>type_info::__is_pointer_p() const</code> |
| <code>vfunc[3]:</code> | <code>__cxxabiv1::__function_type_info::__i</code> |

| | |
|-----------|--|
| | s_function_p() const |
| vfunc[4]: | type_info::__do_catch(type_info const*, void**, unsigned int) const |
| vfunc[5]: | type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const |

The Run Time Type Information for the `__cxxabiv1::__function_type_info` class is described by Table 8-31

Table 8-31 typeinfo for `__cxxabiv1::__function_type_info`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__function_type_info</code> |

8.1.10.2 Interfaces for Class `__cxxabiv1::__function_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__function_type_info` specified in Table 8-32, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-32 libstdcxx - Class `__cxxabiv1::__function_type_info` Function Interfaces

| |
|--|
| <code>__cxxabiv1::__function_type_info::~__function_type_info()</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__function_type_info::~__function_type_info()</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__function_type_info::~__function_type_info()</code> (CXXABI_1.3) [CXXABI-1.86] |
| <code>__cxxabiv1::__function_type_info::__is_function_p() const</code> (CXXABI_1.3) [CXXABI-1.86] |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__function_type_info` specified in Table 8-33, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-33 libstdcxx - Class `__cxxabiv1::__function_type_info` Data Interfaces

| |
|--|
| typeinfo for <code>__cxxabiv1::__function_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for <code>__cxxabiv1::__function_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| vtable for <code>__cxxabiv1::__function_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |

8.1.11 Class `__cxxabiv1::__si_class_type_info`

8.1.11.1 Class data for `__cxxabiv1::__si_class_type_info`

The virtual table for the `__cxxabiv1::__si_class_type_info` class is described by Table 8-34

Table 8-34 Primary vtable for `__cxxabiv1::__si_class_type_info`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__si_class_type_info</code> |
| <code>vfunc[0]:</code> | <code>__cxxabiv1::__si_class_type_info::~~__si_class_type_info()</code> |
| <code>vfunc[1]:</code> | <code>__cxxabiv1::__si_class_type_info::~~__si_class_type_info()</code> |
| <code>vfunc[2]:</code> | <code>type_info::__is_pointer_p() const</code> |
| <code>vfunc[3]:</code> | <code>type_info::__is_function_p() const</code> |
| <code>vfunc[4]:</code> | <code>__cxxabiv1::__class_type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| <code>vfunc[5]:</code> | <code>__cxxabiv1::__class_type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |
| <code>vfunc[6]:</code> | <code>__cxxabiv1::__si_class_type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__upcast_result&) const</code> |

The Run Time Type Information for the `__cxxabiv1::__si_class_type_info` class is described by Table 8-35

Table 8-35 typeinfo for `__cxxabiv1::__si_class_type_info`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__si_class_type_info</code> |

8.1.11.2 Interfaces for Class `__cxxabiv1::__si_class_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__si_class_type_info` specified in Table 8-36, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-36 libstdcxx - Class `__cxxabiv1::__si_class_type_info` Function Interfaces

| |
|--|
| <code>__cxxabiv1::__si_class_type_info::~~__si_class_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__si_class_type_info::~~__si_class_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__si_class_type_info::~~__si_class_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |

```
__cxxabiv1::__si_class_type_info::__do_upcast(__cxxabiv1::__class_type_info
const*, void const*, __cxxabiv1::__class_type_info::__upcast_result&)
const(CXXABI_1.3) [CXXABI-1.86]
```

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__si_class_type_info` specified in Table 8-37, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-37 libstdc++ - Class `__cxxabiv1::__si_class_type_info` Data Interfaces

| |
|--|
| typeinfo for <code>__cxxabiv1::__si_class_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| typeinfo name for <code>__cxxabiv1::__si_class_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |
| vtable for <code>__cxxabiv1::__si_class_type_info</code> (CXXABI_1.3) [CXXABI-1.86] |

8.1.12 Class `__cxxabiv1::__vmi_class_type_info`

8.1.12.1 Class data for `__cxxabiv1::__vmi_class_type_info`

The virtual table for the `__cxxabiv1::__vmi_class_type_info` class is described by Table 8-38

Table 8-38 Primary vtable for `__cxxabiv1::__vmi_class_type_info`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__vmi_class_type_info</code> |
| vfunc[0]: | <code>__cxxabiv1::__vmi_class_type_info::~~ __vmi_class_type_info()</code> |
| vfunc[1]: | <code>__cxxabiv1::__vmi_class_type_info::~~ __vmi_class_type_info()</code> |
| vfunc[2]: | <code>type_info::__is_pointer_p() const</code> |
| vfunc[3]: | <code>type_info::__is_function_p() const</code> |
| vfunc[4]: | <code>__cxxabiv1::__class_type_info::__do_ catch(type_info const*, void**, unsigned int) const</code> |
| vfunc[5]: | <code>__cxxabiv1::__class_type_info::__do_ upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |
| vfunc[6]: | <code>__cxxabiv1::__vmi_class_type_info::__ do_upcast(__cxxabiv1::__class_type _info const*, void const*, __cxxabiv1::__class_type_info::__upc ast_result&) const</code> |

The Run Time Type Information for the `__cxxabiv1::__vmi_class_type_info` class is described by Table 8-39

Table 8-39 typeinfo for `__cxxabiv1::__vmi_class_type_info`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__vmi_class_type_info</code> |

8.1.12.2 Interfaces for Class `__cxxabiv1::__vmi_class_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__vmi_class_type_info` specified in Table 8-40, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-40 libstdcxx - Class `__cxxabiv1::__vmi_class_type_info` Function Interfaces

| |
|---|
| <code>__cxxabiv1::__vmi_class_type_info::~__vmi_class_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__vmi_class_type_info::~__vmi_class_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__vmi_class_type_info::~__vmi_class_type_info()(CXXABI_1.3)</code> [CXXABI-1.86] |
| <code>__cxxabiv1::__vmi_class_type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__upcast_result&) const(CXXABI_1.3)</code> [CXXABI-1.86] |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__vmi_class_type_info` specified in Table 8-41, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-41 libstdcxx - Class `__cxxabiv1::__vmi_class_type_info` Data Interfaces

| |
|---|
| typeinfo for <code>__cxxabiv1::__vmi_class_type_info(CXXABI_1.3)</code> [CXXABI-1.86] |
| typeinfo name for <code>__cxxabiv1::__vmi_class_type_info(CXXABI_1.3)</code> [CXXABI-1.86] |
| vtable for <code>__cxxabiv1::__vmi_class_type_info(CXXABI_1.3)</code> [CXXABI-1.86] |

8.1.13 Class `__cxxabiv1::__fundamental_type_info`**8.1.13.1 Class data for `__cxxabiv1::__fundamental_type_info`**

The virtual table for the `__cxxabiv1::__fundamental_type_info` class is described by Table 8-42

Table 8-42 Primary vtable for `__cxxabiv1::__fundamental_type_info`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__fundamental_type_info</code> 0 |

| | |
|-----------|---|
| vfunc[0]: | <code>__cxxabiv1::__fundamental_type_info::~~__fundamental_type_info()</code> |
| vfunc[1]: | <code>__cxxabiv1::__fundamental_type_info::~~__fundamental_type_info()</code> |
| vfunc[2]: | <code>type_info::__is_pointer_p() const</code> |
| vfunc[3]: | <code>type_info::__is_function_p() const</code> |
| vfunc[4]: | <code>type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| vfunc[5]: | <code>type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |

The Run Time Type Information for the `__cxxabiv1::__fundamental_type_info` class is described by Table 8-43

Table 8-43 typeinfo for `__cxxabiv1::__fundamental_type_info`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__fundamental_type_info</code> |

8.1.13.2 Interfaces for Class `__cxxabiv1::__fundamental_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__fundamental_type_info` specified in Table 8-44, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-44 libstdcxx - Class `__cxxabiv1::__fundamental_type_info` Function Interfaces

| |
|---|
| <code>__cxxabiv1::__fundamental_type_info::~~__fundamental_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__fundamental_type_info::~~__fundamental_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__fundamental_type_info::~~__fundamental_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__fundamental_type_info` specified in Table 8-45, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-45 libstdcxx - Class `__cxxabiv1::__fundamental_type_info` Data Interfaces

| |
|--|
| typeinfo for <code>__cxxabiv1::__fundamental_type_info(CXXABI_1.3) [CXXABI-1.86]</code> |
| typeinfo name for <code>__cxxabiv1::__fundamental_type_info(CXXABI_1.3) [CXXABI-1.86]</code> |
| vtable for <code>__cxxabiv1::__fundamental_type_info(CXXABI_1.3) [CXXABI-1.86]</code> |

8.1.14 Class `__cxxabiv1::__pointer_to_member_type_info`

8.1.14.1 Class data for `__cxxabiv1::__pointer_to_member_type_info`

The virtual table for the `__cxxabiv1::__pointer_to_member_type_info` class is described by Table 8-46

Table 8-46 Primary vtable for `__cxxabiv1::__pointer_to_member_type_info`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__cxxabiv1::__pointer_to_member_type_info</code> |
| vfunc[0]: | <code>__cxxabiv1::__pointer_to_member_type_info::~__pointer_to_member_type_info()</code> |
| vfunc[1]: | <code>__cxxabiv1::__pointer_to_member_type_info::~__pointer_to_member_type_info()</code> |
| vfunc[2]: | <code>type_info::__is_pointer_p() const</code> |
| vfunc[3]: | <code>type_info::__is_function_p() const</code> |
| vfunc[4]: | <code>__cxxabiv1::__pbase_type_info::__do_catch(type_info const*, void**, unsigned int) const</code> |
| vfunc[5]: | <code>type_info::__do_upcast(__cxxabiv1::__class_type_info const*, void**) const</code> |
| vfunc[6]: | <code>__cxxabiv1::__pointer_to_member_type_info::__pointer_catch(__cxxabiv1::__pbase_type_info const*, void**, unsigned int) const</code> |

The Run Time Type Information for the `__cxxabiv1::__pointer_to_member_type_info` class is described by Table 8-47

Table 8-47 typeinfo for `__cxxabiv1::__pointer_to_member_type_info`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__cxxabiv1::__pointer_to_member_type_info</code> |

8.1.14.2 Interfaces for Class `__cxxabiv1::__pointer_to_member_type_info`

An LSB conforming implementation shall provide the generic methods for Class `__cxxabiv1::__pointer_to_member_type_info` specified in Table 8-48, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-48 libstdcxx - Class `__cxxabiv1::__pointer_to_member_type_info` Function Interfaces

| |
|---|
| <code>__cxxabiv1::__pointer_to_member_type_info::~~__pointer_to_member_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__pointer_to_member_type_info::~~__pointer_to_member_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__pointer_to_member_type_info::~~__pointer_to_member_type_info()(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>__cxxabiv1::__pointer_to_member_type_info::__pointer_catch(__cxxabiv1::__pbase_type_info const*, void**, unsigned int) const(CXXABI_1.3) [CXXABI-1.86]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `__cxxabiv1::__pointer_to_member_type_info` specified in Table 8-49, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-49 libstdcxx - Class `__cxxabiv1::__pointer_to_member_type_info` Data Interfaces

| |
|--|
| <code>typeinfo for __cxxabiv1::__pointer_to_member_type_info(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>typeinfo name for __cxxabiv1::__pointer_to_member_type_info(CXXABI_1.3) [CXXABI-1.86]</code> |
| <code>vtable for __cxxabiv1::__pointer_to_member_type_info(CXXABI_1.3) [CXXABI-1.86]</code> |

8.1.15 Class `__gnu_cxx::stdio_filebuf<char, char_traits<char>>`

8.1.15.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class `__gnu_cxx::stdio_filebuf<char, std::char_traits<char>>` specified in Table 8-50, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-50 libstdcxx - Class `__gnu_cxx::stdio_filebuf<char, char_traits<char>>` Data Interfaces

| |
|--|
| <code>typeinfo for __gnu_cxx::stdio_filebuf<char, char_traits<char>> (GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for __gnu_cxx::stdio_filebuf<char, char_traits<char>> (GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.16 Class `__gnu_cxx::stdio_filebuf<wchar_t, char_traits<wchar_t>>`

8.1.16.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class `__gnu_cxx::stdio_filebuf<wchar_t, std::char_traits<wchar_t>>` specified in Table 8-51, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-51 `libstdcxx` - Class `__gnu_cxx::stdio_filebuf<wchar_t, char_traits<wchar_t>>` Data Interfaces

| |
|--|
| typeinfo for <code>__gnu_cxx::stdio_filebuf<wchar_t, char_traits<wchar_t>></code> >(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>__gnu_cxx::stdio_filebuf<wchar_t, char_traits<wchar_t>></code> >(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.17 Class `__gnu_cxx::__pool_alloc_base`

8.1.17.1 Interfaces for Class `__gnu_cxx::__pool_alloc_base`

An LSB conforming implementation shall provide the generic methods for Class `__gnu_cxx::__pool_alloc_base` specified in Table 8-52, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-52 `libstdcxx` - Class `__gnu_cxx::__pool_alloc_base` Function Interfaces

| |
|--|
| <code>__gnu_cxx::__pool_alloc_base::M_get_mutex()</code> (GLIBCXX_3.4.2) [LSB] |
|--|

8.1.18 Class `__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>`

8.1.18.1 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 Table 8-53

Table 8-53 Primary vtable for `__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>></code> |
| vfunc[0]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>></code> >::~~stdio_sync_filebuf() |

| | |
|------------|--|
| vfunc[1]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::~~stdio_sync_filebuf()</code> |
| vfunc[2]: | <code>basic_streambuf<char, char_traits<char>>::imbue(locale const&)</code> |
| vfunc[3]: | See The Architecture Specific Specification |
| vfunc[4]: | See The Architecture Specific Specification |
| vfunc[5]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code> |
| vfunc[6]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::sync()</code> |
| vfunc[7]: | <code>basic_streambuf<char, char_traits<char>>::showmanyc()</code> |
| vfunc[8]: | See The Architecture Specific Specification |
| vfunc[9]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::underflow()</code> |
| vfunc[10]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::uflow()</code> |
| vfunc[11]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::pbackfail(int)</code> |
| vfunc[12]: | See The Architecture Specific Specification |
| vfunc[13]: | <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::overflow(int)</code> |

8.1.18.2 Interfaces for Class `__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>`

An LSB conforming implementation shall provide the generic methods for Class `__gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char>>` specified in Table 8-54, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-54 libstdcxx - Class `__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>` Function Interfaces

| |
|--|
| <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>::file()(GLIBCXX_3.4.2) [LSB]</code> |
|--|

An LSB conforming implementation shall provide the generic data interfaces for Class `__gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char>>` specified in

Table 8-55, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-55 libstdcxx - Class `__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>` Data Interfaces

| |
|---|
| typeinfo for <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>></code> >(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>></code> >(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>></code> >(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.19 Class `__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>>`

8.1.19.1 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 Table 8-56

Table 8-56 Primary vtable for `__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>></code> |
| vfunc[0]: | <code>__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>>::~stdio_sync_filebuf()</code> |
| vfunc[1]: | <code>__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>>::~stdio_sync_filebuf()</code> |
| vfunc[2]: | <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::imbue(locale const&)</code> |
| vfunc[3]: | See The Architecture Specific Specification |
| vfunc[4]: | See The Architecture Specific Specification |
| vfunc[5]: | <code>__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>>::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code> |
| vfunc[6]: | <code>__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>>::sync()</code> |

| | |
|------------|---|
| vfunc[7]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::showmanyc() |
| vfunc[8]: | See The Architecture Specific Specification |
| vfunc[9]: | __gnu_cxx::stdio_sync_filebuf<wcha r_t, char_traits<wchar_t> >::underflow() |
| vfunc[10]: | __gnu_cxx::stdio_sync_filebuf<wcha r_t, char_traits<wchar_t> >::uflow() |
| vfunc[11]: | __gnu_cxx::stdio_sync_filebuf<wcha r_t, char_traits<wchar_t> >::pbackfail(unsigned int) |
| vfunc[12]: | See The Architecture Specific Specification |
| vfunc[13]: | __gnu_cxx::stdio_sync_filebuf<wcha r_t, char_traits<wchar_t> >::overflow(unsigned int) |

8.1.19.2 Interfaces for Class

__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >

An LSB conforming implementation shall provide the generic methods for Class `__gnu_cxx::stdio_sync_filebuf<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-57, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-57 libstdcxx - Class `__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >` Function Interfaces

| |
|---|
| <code>__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >::file()(GLIBCXX_3.4.2) [LSB]</code> |
|---|

An LSB conforming implementation shall provide the generic data interfaces for Class `__gnu_cxx::stdio_sync_filebuf<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-58, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-58 libstdcxx - Class `__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|---|
| <code>typeid for __gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for __gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for __gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.20 Class exception

8.1.20.1 Class data for exception

The virtual table for the `std::exception` class is described by Table 8-59

Table 8-59 Primary vtable for exception

| | |
|---------------------|--------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for exception |
| vfunc[0]: | exception::~~exception() |
| vfunc[1]: | exception::~~exception() |
| vfunc[2]: | exception::what() const |

The Run Time Type Information for the `std::exception` class is described by Table 8-60

Table 8-60 typeinfo for exception

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__class_type_info |
| Name | typeinfo name for exception |

8.1.20.2 Interfaces for Class exception

An LSB conforming implementation shall provide the generic methods for Class `std::exception` specified in Table 8-61, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-61 libstdcxx - Class exception Function Interfaces

| |
|--|
| exception::what() const(GLIBCXX_3.4) [ISOCXX] |
| exception::~~exception()(GLIBCXX_3.4) [ISOCXX] |
| exception::~~exception()(GLIBCXX_3.4) [ISOCXX] |
| exception::~~exception()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::exception` specified in Table 8-62, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-62 libstdcxx - Class exception Data Interfaces

| |
|--|
| typeinfo for exception(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for exception(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for exception(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.21 Class `bad_typeid`

8.1.21.1 Class data for `bad_typeid`

The virtual table for the `std::bad_typeid` class is described by Table 8-63

Table 8-63 Primary vtable for `bad_typeid`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>bad_typeid</code> |
| <code>vfunc[0]:</code> | <code>bad_typeid::~~bad_typeid()</code> |
| <code>vfunc[1]:</code> | <code>bad_typeid::~~bad_typeid()</code> |
| <code>vfunc[2]:</code> | <code>exception::what() const</code> |

The Run Time Type Information for the `std::bad_typeid` class is described by Table 8-64

Table 8-64 typeinfo for `bad_typeid`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>bad_typeid</code> |

8.1.21.2 Interfaces for Class `bad_typeid`

An LSB conforming implementation shall provide the generic methods for Class `std::bad_typeid` specified in Table 8-65, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-65 `libstdcxx` - Class `bad_typeid` Function Interfaces

| |
|--|
| <code>bad_typeid::~~bad_typeid()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>bad_typeid::~~bad_typeid()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>bad_typeid::~~bad_typeid()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::bad_typeid` specified in Table 8-66, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-66 `libstdcxx` - Class `bad_typeid` Data Interfaces

| |
|---|
| typeinfo for <code>bad_typeid</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>bad_typeid</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>bad_typeid</code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.22 Class `logic_error`

8.1.22.1 Class data for `logic_error`

The virtual table for the `std::logic_error` class is described by Table 8-67

Table 8-67 Primary vtable for `logic_error`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>logic_error</code> |
| <code>vfunc[0]:</code> | <code>logic_error::~~logic_error()</code> |
| <code>vfunc[1]:</code> | <code>logic_error::~~logic_error()</code> |
| <code>vfunc[2]:</code> | <code>logic_error::what() const</code> |

The Run Time Type Information for the `std::logic_error` class is described by Table 8-68

Table 8-68 typeinfo for `logic_error`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>logic_error</code> |

8.1.22.2 Interfaces for Class `logic_error`

An LSB conforming implementation shall provide the generic methods for Class `std::logic_error` specified in Table 8-69, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-69 `libstdcxx` - Class `logic_error` Function Interfaces

| |
|---|
| <code>logic_error::what() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>logic_error::logic_error(basic_string<char, char_traits<char>, allocator<char>> const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>logic_error::logic_error(basic_string<char, char_traits<char>, allocator<char>> const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>logic_error::~~logic_error()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>logic_error::~~logic_error()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>logic_error::~~logic_error()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::logic_error` specified in Table 8-70, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-70 `libstdcxx` - Class `logic_error` Data Interfaces

| |
|--|
| typeinfo for <code>logic_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>logic_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>logic_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.23 Class range_error

8.1.23.1 Class data for range_error

The virtual table for the `std::range_error` class is described by Table 8-71

Table 8-71 Primary vtable for range_error

| | |
|---------------------|------------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for range_error |
| vfunc[0]: | range_error::~~range_error() |
| vfunc[1]: | range_error::~~range_error() |
| vfunc[2]: | runtime_error::what() const |

The Run Time Type Information for the `std::range_error` class is described by Table 8-72

Table 8-72 typeinfo for range_error

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for range_error |

8.1.23.2 Interfaces for Class range_error

An LSB conforming implementation shall provide the generic methods for Class `std::range_error` specified in Table 8-73, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-73 libstdcxx - Class range_error Function Interfaces

| |
|---|
| <code>range_error::range_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>range_error::range_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>range_error::~~range_error()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>range_error::~~range_error()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::range_error` specified in Table 8-74, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-74 libstdcxx - Class range_error Data Interfaces

| |
|---|
| <code>typeinfo for range_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for range_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for range_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.24 Class domain_error

8.1.24.1 Class data for domain_error

The virtual table for the `std::domain_error` class is described by Table 8-75

Table 8-75 Primary vtable for domain_error

| | |
|---------------------|--------------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for domain_error |
| vfunc[0]: | domain_error::~~domain_error() |
| vfunc[1]: | domain_error::~~domain_error() |
| vfunc[2]: | logic_error::what() const |

The Run Time Type Information for the `std::domain_error` class is described by Table 8-76

Table 8-76 typeinfo for domain_error

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for domain_error |

8.1.24.2 Interfaces for Class domain_error

An LSB conforming implementation shall provide the generic methods for Class `std::domain_error` specified in Table 8-77, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-77 libstdcxx - Class domain_error Function Interfaces

| |
|---|
| <code>domain_error::domain_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>domain_error::domain_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>domain_error::~~domain_error()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>domain_error::~~domain_error()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::domain_error` specified in Table 8-78, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-78 libstdcxx - Class domain_error Data Interfaces

| |
|--|
| <code>typeinfo for domain_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for domain_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for domain_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.25 Class `length_error`

8.1.25.1 Class data for `length_error`

The virtual table for the `std::length_error` class is described by Table 8-79

Table 8-79 Primary vtable for `length_error`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>length_error</code> |
| <code>vfunc[0]:</code> | <code>length_error::~~length_error()</code> |
| <code>vfunc[1]:</code> | <code>length_error::~~length_error()</code> |
| <code>vfunc[2]:</code> | <code>logic_error::what() const</code> |

The Run Time Type Information for the `std::length_error` class is described by Table 8-80

Table 8-80 typeinfo for `length_error`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>length_error</code> |

8.1.25.2 Interfaces for Class `length_error`

An LSB conforming implementation shall provide the generic methods for Class `std::length_error` specified in Table 8-81, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-81 `libstdcxx` - Class `length_error` Function Interfaces

| |
|---|
| <code>length_error::length_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>length_error::length_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>length_error::~~length_error()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>length_error::~~length_error()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::length_error` specified in Table 8-82, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-82 `libstdcxx` - Class `length_error` Data Interfaces

| |
|---|
| typeinfo for <code>length_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>length_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>length_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.26 Class out_of_range

8.1.26.1 Class data for out_of_range

The virtual table for the `std::out_of_range` class is described by Table 8-83

Table 8-83 Primary vtable for out_of_range

| | |
|---------------------|--------------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for out_of_range |
| vfunc[0]: | out_of_range::~~out_of_range() |
| vfunc[1]: | out_of_range::~~out_of_range() |
| vfunc[2]: | logic_error::what() const |

The Run Time Type Information for the `std::out_of_range` class is described by Table 8-84

Table 8-84 typeinfo for out_of_range

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for out_of_range |

8.1.26.2 Interfaces for Class out_of_range

An LSB conforming implementation shall provide the generic methods for Class `std::out_of_range` specified in Table 8-85, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-85 libstdcxx - Class out_of_range Function Interfaces

| |
|---|
| <code>out_of_range::out_of_range(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>out_of_range::out_of_range(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>out_of_range::~~out_of_range()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>out_of_range::~~out_of_range()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::out_of_range` specified in Table 8-86, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-86 libstdcxx - Class out_of_range Data Interfaces

| |
|---|
| typeinfo for out_of_range(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for out_of_range(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for out_of_range(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.27 Class `bad_exception`

8.1.27.1 Class data for `bad_exception`

The virtual table for the `std::bad_exception` class is described by Table 8-87

Table 8-87 Primary vtable for `bad_exception`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>bad_exception</code> |
| <code>vfunc[0]:</code> | <code>bad_exception::~~bad_exception()</code> |
| <code>vfunc[1]:</code> | <code>bad_exception::~~bad_exception()</code> |
| <code>vfunc[2]:</code> | <code>exception::what() const</code> |

The Run Time Type Information for the `std::bad_exception` class is described by Table 8-88

Table 8-88 typeinfo for `bad_exception`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>bad_exception</code> |

8.1.27.2 Interfaces for Class `bad_exception`

An LSB conforming implementation shall provide the generic methods for Class `std::bad_exception` specified in Table 8-89, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-89 `libstdcxx` - Class `bad_exception` Function Interfaces

| |
|---|
| <code>bad_exception::~~bad_exception()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bad_exception::~~bad_exception()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bad_exception::~~bad_exception()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::bad_exception` specified in Table 8-90, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-90 `libstdcxx` - Class `bad_exception` Data Interfaces

| |
|---|
| <code>typeinfo for bad_exception(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for bad_exception(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for bad_exception(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.28 Class `runtime_error`

8.1.28.1 Class data for `runtime_error`

The virtual table for the `std::runtime_error` class is described by Table 8-91

Table 8-91 Primary vtable for runtime_error

| | |
|---------------------|----------------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for runtime_error |
| vfunc[0]: | runtime_error::~~runtime_error() |
| vfunc[1]: | runtime_error::~~runtime_error() |
| vfunc[2]: | runtime_error::what() const |

The Run Time Type Information for the std::runtime_error class is described by Table 8-92

Table 8-92 typeinfo for runtime_error

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for runtime_error |

8.1.28.2 Interfaces for Class runtime_error

An LSB conforming implementation shall provide the generic methods for Class std::runtime_error specified in Table 8-93, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-93 libstdcxx - Class runtime_error Function Interfaces

| |
|--|
| runtime_error::what() const(GLIBCXX_3.4) [ISOCXX] |
| runtime_error::runtime_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX] |
| runtime_error::runtime_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX] |
| runtime_error::~~runtime_error()(GLIBCXX_3.4) [ISOCXX] |
| runtime_error::~~runtime_error()(GLIBCXX_3.4) [ISOCXX] |
| runtime_error::~~runtime_error()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class std::runtime_error specified in Table 8-94, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-94 libstdcxx - Class runtime_error Data Interfaces

| |
|--|
| typeinfo for runtime_error(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for runtime_error(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for runtime_error(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.29 Class overflow_error

8.1.29.1 Class data for overflow_error

The virtual table for the `std::overflow_error` class is described by Table 8-95

Table 8-95 Primary vtable for overflow_error

| | |
|---------------------|------------------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for overflow_error |
| vfunc[0]: | overflow_error::~~overflow_error() |
| vfunc[1]: | overflow_error::~~overflow_error() |
| vfunc[2]: | runtime_error::what() const |

The Run Time Type Information for the `std::overflow_error` class is described by Table 8-96

Table 8-96 typeinfo for overflow_error

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for overflow_error |

8.1.29.2 Interfaces for Class overflow_error

An LSB conforming implementation shall provide the generic methods for Class `std::overflow_error` specified in Table 8-97, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-97 libstdcxx - Class overflow_error Function Interfaces

| |
|---|
| <code>overflow_error::overflow_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>overflow_error::overflow_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>overflow_error::~~overflow_error()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>overflow_error::~~overflow_error()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::overflow_error` specified in Table 8-98, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-98 libstdcxx - Class overflow_error Data Interfaces

| |
|--|
| <code>typeinfo for overflow_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for overflow_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for overflow_error(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.30 Class `underflow_error`

8.1.30.1 Class data for `underflow_error`

The virtual table for the `std::underflow_error` class is described by Table 8-99

Table 8-99 Primary vtable for `underflow_error`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo</code> for <code>underflow_error</code> |
| <code>vfunc[0]:</code> | <code>underflow_error::~~underflow_error()</code> |
| <code>vfunc[1]:</code> | <code>underflow_error::~~underflow_error()</code> |
| <code>vfunc[2]:</code> | <code>runtime_error::what() const</code> |

The Run Time Type Information for the `std::underflow_error` class is described by Table 8-100

Table 8-100 `typeinfo` for `underflow_error`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | <code>typeinfo</code> name for <code>underflow_error</code> |

8.1.30.2 Interfaces for Class `underflow_error`

An LSB conforming implementation shall provide the generic methods for Class `std::underflow_error` specified in Table 8-101, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-101 `libstdcxx` - Class `underflow_error` Function Interfaces

| |
|---|
| <code>underflow_error::underflow_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>underflow_error::underflow_error(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>underflow_error::~~underflow_error()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>underflow_error::~~underflow_error()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::underflow_error` specified in Table 8-102, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-102 `libstdcxx` - Class `underflow_error` Data Interfaces

| |
|---|
| <code>typeinfo</code> for <code>underflow_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeinfo</code> name for <code>underflow_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>underflow_error</code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.31 Class `invalid_argument`

8.1.31.1 Class data for `invalid_argument`

The virtual table for the `std::invalid_argument` class is described by Table 8-103

Table 8-103 Primary vtable for `invalid_argument`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>invalid_argument</code> |
| <code>vfunc[0]:</code> | <code>invalid_argument::~~invalid_argument()</code> |
| <code>vfunc[1]:</code> | <code>invalid_argument::~~invalid_argument()</code> |
| <code>vfunc[2]:</code> | <code>logic_error::what() const</code> |

The Run Time Type Information for the `std::invalid_argument` class is described by Table 8-104

Table 8-104 typeinfo for `invalid_argument`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>invalid_argument</code> |

8.1.31.2 Interfaces for Class `invalid_argument`

An LSB conforming implementation shall provide the generic methods for Class `std::invalid_argument` specified in Table 8-105, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-105 `libstdcxx` - Class `invalid_argument` Function Interfaces

| |
|---|
| <code>invalid_argument::invalid_argument(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>invalid_argument::invalid_argument(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>invalid_argument::~~invalid_argument()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>invalid_argument::~~invalid_argument()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::invalid_argument` specified in Table 8-106, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-106 `libstdcxx` - Class `invalid_argument` Data Interfaces

| |
|--|
| <code>typeinfo for invalid_argument(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for invalid_argument(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for invalid_argument(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.32 Class bad_cast

8.1.32.1 Class data for bad_cast

The virtual table for the std::bad_cast class is described by Table 8-107

Table 8-107 Primary vtable for bad_cast

| | |
|---------------------|-------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for bad_cast |
| vfunc[0]: | bad_cast::~~bad_cast() |
| vfunc[1]: | bad_cast::~~bad_cast() |
| vfunc[2]: | exception::what() const |

The Run Time Type Information for the std::bad_cast class is described by Table 8-108

Table 8-108 typeinfo for bad_cast

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for bad_cast |

8.1.32.2 Interfaces for Class bad_cast

An LSB conforming implementation shall provide the generic methods for Class std::bad_cast specified in Table 8-109, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-109 libstdcxx - Class bad_cast Function Interfaces

| |
|--|
| bad_cast::~~bad_cast()(GLIBCXX_3.4) [ISOCXX] |
| bad_cast::~~bad_cast()(GLIBCXX_3.4) [ISOCXX] |
| bad_cast::~~bad_cast()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class std::bad_cast specified in Table 8-110, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-110 libstdcxx - Class bad_cast Data Interfaces

| |
|---|
| typeinfo for bad_cast(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for bad_cast(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for bad_cast(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.33 Class bad_alloc

8.1.33.1 Class data for bad_alloc

The virtual table for the std::bad_alloc class is described by Table 8-111

Table 8-111 Primary vtable for bad_alloc

| | |
|---------------------|--------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for bad_alloc |
| vfunc[0]: | bad_alloc::~~bad_alloc() |
| vfunc[1]: | bad_alloc::~~bad_alloc() |
| vfunc[2]: | exception::what() const |

The Run Time Type Information for the std::bad_alloc class is described by Table 8-112

Table 8-112 typeinfo for bad_alloc

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for bad_alloc |

8.1.33.2 Interfaces for Class bad_alloc

An LSB conforming implementation shall provide the generic methods for Class std::bad_alloc specified in Table 8-113, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-113 libstdcxx - Class bad_alloc Function Interfaces

| |
|--|
| bad_alloc::~~bad_alloc()(GLIBCXX_3.4) [ISOCXX] |
| bad_alloc::~~bad_alloc()(GLIBCXX_3.4) [ISOCXX] |
| bad_alloc::~~bad_alloc()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class std::bad_alloc specified in Table 8-114, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-114 libstdcxx - Class bad_alloc Data Interfaces

| |
|--|
| typeinfo for bad_alloc(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for bad_alloc(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for bad_alloc(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.34 struct __numeric_limits_base

8.1.34.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct __numeric_limits_base specified in Table 8-115, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-115 libstdcxx - struct `__numeric_limits_base` Data Interfaces

| |
|---|
| <code>__numeric_limits_base::has_denorm(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::is_bounded(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::is_integer(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::round_style(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::has_infinity(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::max_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::min_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::has_quiet_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::is_specialized(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::max_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::min_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::has_denorm_loss(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::tinyness_before(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::has_signaling_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::radix(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::traps(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::digits(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::digits10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::is_exact(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::is_iec559(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::is_modulo(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__numeric_limits_base::is_signed(GLIBCXX_3.4)</code> [ISOCXX] |

8.1.35 struct `numeric_limits<long double>`

8.1.35.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for `struct numeric_limits<long double>` specified in Table 8-116, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-116 libstdcxx - struct `numeric_limits<long double>` Data Interfaces

| |
|--|
| <code>numeric_limits<long double>::has_denorm(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::is_bounded(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::is_integer(GLIBCXX_3.4)</code> [ISOCXX] |

| |
|---|
| <code>numeric_limits<long double>::round_style(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::has_infinity(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::max_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::min_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::has_quiet_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::is_specialized(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::max_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::min_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::has_denorm_loss(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::tinyness_before(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::has_signaling_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::radix(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::traps(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::digits(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::digits10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::is_exact(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::is_iec559(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::is_modulo(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long double>::is_signed(GLIBCXX_3.4)</code> [ISOCXX] |

8.1.36 struct `numeric_limits<long long>`

8.1.36.1 Interfaces for struct `numeric_limits<long long>`

No external methods are defined for `libstdc++` - struct `numeric_limits<long long>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<long long>` specified in Table 8-117, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-117 `libstdc++` - struct `numeric_limits<long long>` Data Interfaces

| |
|--|
| <code>numeric_limits<long long>::has_denorm(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::is_bounded(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::is_integer(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::round_style(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::has_infinity(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::max_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::min_exponent(GLIBCXX_3.4)</code> [ISOCXX] |

| |
|---|
| <code>numeric_limits<long long>::has_quiet_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::is_specialized(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::max_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::min_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::has_denorm_loss(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::tinyness_before(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::has_signaling_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::radix(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::traps(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::digits(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::digits10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::is_exact(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::is_iec559(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::is_modulo(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<long long>::is_signed(GLIBCXX_3.4)</code> [ISOCXX] |

8.1.37 struct `numeric_limits<unsigned long long>`

8.1.37.1 Interfaces for struct `numeric_limits<unsigned long long>`

No external methods are defined for `libstdc++` - struct `numeric_limits<unsigned long long>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<unsigned long long>` specified in Table 8-118, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-118 `libstdc++` - struct `numeric_limits<unsigned long long>` Data Interfaces

| |
|--|
| <code>numeric_limits<unsigned long long>::has_denorm(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long long>::is_bounded(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long long>::is_integer(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long long>::round_style(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long long>::has_infinity(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long long>::max_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long long>::min_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long long>::has_quiet_NaN(GLIBCXX_3.4)</code> [ISOCXX] |

| |
|---|
| <code>numeric_limits<unsigned long long>::is_specialized</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::max_exponent10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::min_exponent10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::has_denorm_loss</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::tinyness_before</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::has_signaling_NaN</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::radix</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::traps</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::digits</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::digits10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::is_exact</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::is_iec559</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::is_modulo</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<unsigned long long>::is_signed</code> (GLIBCXX_3.4) [ISOCXX] |

8.1.38 struct `numeric_limits<float>`

8.1.38.1 Interfaces for struct `numeric_limits<float>`

No external methods are defined for `libstdc++` - struct `numeric_limits<float>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<float>` specified in Table 8-119, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-119 `libstdc++` - struct `numeric_limits<float>` Data Interfaces

| |
|--|
| <code>numeric_limits<float>::has_denorm</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::is_bounded</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::is_integer</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::round_style</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::has_infinity</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::max_exponent</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::min_exponent</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::has_quiet_NaN</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| <code>numeric_limits<float>::is_specialized</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::max_exponent10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::min_exponent10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::has_denorm_loss</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::tinyness_before</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::has_signaling_NaN</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::radix</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::traps</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::digits</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::digits10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::is_exact</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::is_iec559</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::is_modulo</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<float>::is_signed</code> (GLIBCXX_3.4) [ISOCXX] |

8.1.39 struct `numeric_limits<double>`

8.1.39.1 Interfaces for struct `numeric_limits<double>`

No external methods are defined for `libstdc++` - struct `numeric_limits<double>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<double>` specified in Table 8-120, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-120 `libstdc++` - struct `numeric_limits<double>` Data Interfaces

| |
|---|
| <code>numeric_limits<double>::has_denorm</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::is_bounded</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::is_integer</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::round_style</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::has_infinity</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::max_exponent</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::min_exponent</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::has_quiet_NaN</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::is_specialized</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::max_exponent10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::min_exponent10</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numeric_limits<double>::has_denorm_loss</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| <code>numeric_limits<double>::tinyness_before(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::traps(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::digits(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<double>::is_signed(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.40 struct `numeric_limits<short>`

8.1.40.1 Interfaces for struct `numeric_limits<short>`

No external methods are defined for `libstdc++` - struct `numeric_limits<short>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<short>` specified in Table 8-121, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-121 `libstdc++` - struct `numeric_limits<short>` Data Interfaces

| |
|---|
| <code>numeric_limits<short>::has_denorm(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::is_bounded(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::is_integer(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::round_style(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::has_infinity(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::max_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::min_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::is_specialized(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::max_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::min_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::tinyness_before(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::traps(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| <code>numeric_limits<short>::digits(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<short>::is_signed(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.41 struct `numeric_limits<unsigned short>`

8.1.41.1 Interfaces for struct `numeric_limits<unsigned short>`

No external methods are defined for `libstdc++` - struct `numeric_limits<unsigned short>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<unsigned short>` specified in Table 8-122, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-122 `libstdc++` - struct `numeric_limits<unsigned short>` Data Interfaces

| |
|--|
| <code>numeric_limits<unsigned short>::has_denorm(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::is_bounded(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::is_integer(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::round_style(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::has_infinity(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::max_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::min_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::is_specialized(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::max_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::min_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::tinyness_before(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::traps(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::digits(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| <code>numeric_limits<unsigned short>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<unsigned short>::is_signed(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.42 struct `numeric_limits<int>`

8.1.42.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<int>` specified in Table 8-123, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-123 `libstdcxx` - struct `numeric_limits<int>` Data Interfaces

| |
|---|
| <code>numeric_limits<int>::has_denorm(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::is_bounded(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::is_integer(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::round_style(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::has_infinity(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::max_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::min_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::is_specialized(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::max_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::min_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::tinyness_before(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::traps(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::digits(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<int>::is_signed(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.43 struct numeric_limits<unsigned int>

8.1.43.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct numeric_limits<unsigned int> specified in Table 8-124, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-124 libstdcxx - struct numeric_limits<unsigned int> Data Interfaces

| |
|---|
| numeric_limits<unsigned int>::has_denorm(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::is_bounded(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::is_integer(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::round_style(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::has_infinity(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::max_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::min_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::is_specialized(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::max_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::min_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::tinyness_before(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::radix(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::traps(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::digits(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::digits10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::is_exact(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::is_iec559(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::is_modulo(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned int>::is_signed(GLIBCXX_3.4) [ISOCXX] |

8.1.44 struct numeric_limits<long>

8.1.44.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<long>` specified in Table 8-125, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-125 libstdcxx - struct `numeric_limits<long>` Data Interfaces

| |
|--|
| <code>numeric_limits<long>::has_denorm(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::is_bounded(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::is_integer(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::round_style(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::has_infinity(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::max_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::min_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::is_specialized(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::max_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::min_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::tinyness_before(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::traps(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::digits(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<long>::is_signed(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.45 struct `numeric_limits<unsigned long>`

8.1.45.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<unsigned long>` specified in Table 8-126, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-126 libstdcxx - struct `numeric_limits<unsigned long>` Data Interfaces

| |
|--|
| <code>numeric_limits<unsigned long>::has_denorm(GLIBCXX_3.4) [ISOCXX]</code> |
|--|

| |
|---|
| <code>numeric_limits<unsigned long>::is_bounded(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::is_integer(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::round_style(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::has_infinity(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::max_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::min_exponent(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::has_quiet_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::is_specialized(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::max_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::min_exponent10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::has_denorm_loss(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::tinyness_before(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::has_signaling_NaN(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::radix(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::traps(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::digits(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::digits10(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::is_exact(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::is_iec559(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::is_modulo(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<unsigned long>::is_signed(GLIBCXX_3.4)</code> [ISOCXX] |

8.1.46 struct `numeric_limits<wchar_t>`

8.1.46.1 Interfaces for struct `numeric_limits<wchar_t>`

No external methods are defined for `libstdc++` - struct `numeric_limits<wchar_t>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<wchar_t>` specified in Table 8-127, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-127 `libstdc++` - struct `numeric_limits<wchar_t>` Data Interfaces

| |
|--|
| <code>numeric_limits<wchar_t>::has_denorm(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<wchar_t>::is_bounded(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<wchar_t>::is_integer(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<wchar_t>::round_style(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numeric_limits<wchar_t>::has_infinity(GLIBCXX_3.4)</code> [ISOCXX] |

| |
|--|
| numeric_limits<wchar_t>::max_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::min_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::is_specialized(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::max_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::min_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::tinyness_before(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::radix(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::traps(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::digits(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::digits10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::is_exact(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::is_iec559(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::is_modulo(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<wchar_t>::is_signed(GLIBCXX_3.4) [ISOCXX] |

8.1.47 struct numeric_limits<unsigned char>

8.1.47.1 Interfaces for struct numeric_limits<unsigned char>

No external methods are defined for libstdc++ - struct numeric_limits<unsigned char> in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct numeric_limits<unsigned char> specified in Table 8-128, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-128 libstdc++ - struct numeric_limits<unsigned char> Data Interfaces

| |
|---|
| numeric_limits<unsigned char>::has_denorm(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::is_bounded(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::is_integer(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::round_style(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::has_infinity(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::max_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::min_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::is_specialized(GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| numeric_limits<unsigned char>::max_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::min_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::tinyness_before(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::radix(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::traps(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::digits(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::digits10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::is_exact(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::is_iec559(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::is_modulo(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<unsigned char>::is_signed(GLIBCXX_3.4) [ISOCXX] |

8.1.48 struct numeric_limits<signed char>

8.1.48.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct numeric_limits<signed char> specified in Table 8-129, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-129 libstdcxx - struct numeric_limits<signed char> Data Interfaces

| |
|--|
| numeric_limits<signed char>::has_denorm(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::is_bounded(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::is_integer(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::round_style(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::has_infinity(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::max_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::min_exponent(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::is_specialized(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::max_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::min_exponent10(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX] |
| numeric_limits<signed char>::tinyness_before(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>numeric_limits<signed char>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::traps(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::digits(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<signed char>::is_signed(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.49 struct `numeric_limits<char>`

8.1.49.1 Interfaces for struct `numeric_limits<char>`

No external methods are defined for `libstdc++` - struct `numeric_limits<char>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<char>` specified in Table 8-130, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-130 `libstdc++` - struct `numeric_limits<char>` Data Interfaces

| |
|--|
| <code>numeric_limits<char>::has_denorm(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::is_bounded(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::is_integer(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::round_style(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::has_infinity(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::max_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::min_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::is_specialized(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::max_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::min_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::tinyness_before(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::traps(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::digits(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| <code>numeric_limits<char>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<char>::is_signed(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.50 struct `numeric_limits<bool>`

8.1.50.1 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for struct `numeric_limits<bool>` specified in Table 8-131, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-131 `libstdcxx` - struct `numeric_limits<bool>` Data Interfaces

| |
|--|
| <code>numeric_limits<bool>::has_denorm(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::is_bounded(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::is_integer(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::round_style(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::has_infinity(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::max_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::min_exponent(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::has_quiet_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::is_specialized(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::max_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::min_exponent10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::has_denorm_loss(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::tinyness_before(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::has_signaling_NaN(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::radix(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::traps(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::digits(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::digits10(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::is_exact(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::is_iec559(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numeric_limits<bool>::is_modulo(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| numeric_limits<bool>::is_signed(GLIBCXX_3.4) [ISOCXX] |
|---|

8.1.51 Class ctype_base

8.1.51.1 Class data for ctype_base

The Run Time Type Information for the std::ctype_base class is described by Table 8-132

Table 8-132 typeinfo for ctype_base

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__class_type_info |
| Name | typeinfo name for ctype_base |

8.1.51.2 Interfaces for Class ctype_base

No external methods are defined for libstdc++ - Class std::ctype_base in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class std::ctype_base specified in Table 8-133, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-133 libstdc++ - Class ctype_base Data Interfaces

| |
|---|
| ctype_base::alnum(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::alpha(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::cntrl(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::digit(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::graph(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::lower(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::print(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::punct(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::space(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::upper(GLIBCXX_3.4) [ISOCXX] |
| ctype_base::xdigit(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for ctype_base(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for ctype_base(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.52 Class __ctype_abstract_base<char>

8.1.52.1 Class data for __ctype_abstract_base<char>

The virtual table for the std::__ctype_abstract_base<char> class is described by Table 8-134

Table 8-134 Primary vtable for `__ctype_abstract_base<char>`

| | |
|-------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeid for <code>__ctype_abstract_base<char></code> |
| <code>vfunc[0]:</code> | NULL or <code>__ctype_abstract_base<char>::~~__ctype_abstract_base()</code> |
| <code>vfunc[1]:</code> | NULL or <code>__ctype_abstract_base<char>::~~__ctype_abstract_base()</code> |
| <code>vfunc[2]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[3]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[4]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[5]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[6]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[7]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[8]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[9]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[10]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[11]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[12]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[13]:</code> | <code>__cxa_pure_virtual</code> |

8.1.52.2 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class `std::__ctype_abstract_base<char>` specified in Table 8-135, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-135 `libstdcxx` - Class `__ctype_abstract_base<char>` Data Interfaces

| |
|--|
| typeid for <code>__ctype_abstract_base<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeid name for <code>__ctype_abstract_base<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>__ctype_abstract_base<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.53 Class `__ctype_abstract_base<wchar_t>`

8.1.53.1 Class data for `__ctype_abstract_base<wchar_t>`

The virtual table for the `std::__ctype_abstract_base<wchar_t>` class is described by Table 8-136

Table 8-136 Primary vtable for `__ctype_abstract_base<wchar_t>`

| | |
|-------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__ctype_abstract_base<wchar_t></code> |
| <code>vfunc[0]:</code> | NULL or <code>__ctype_abstract_base<wchar_t>::~~__ctype_abstract_base()</code> |
| <code>vfunc[1]:</code> | NULL or <code>__ctype_abstract_base<wchar_t>::~~__ctype_abstract_base()</code> |
| <code>vfunc[2]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[3]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[4]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[5]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[6]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[7]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[8]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[9]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[10]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[11]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[12]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[13]:</code> | <code>__cxa_pure_virtual</code> |

8.1.53.2 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class `std::__ctype_abstract_base<wchar_t>` specified in Table 8-137, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-137 `libstdcxx` - Class `__ctype_abstract_base<wchar_t>` Data Interfaces

| |
|--|
| typeinfo for <code>__ctype_abstract_base<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>__ctype_abstract_base<wchar_t></code> (GLIBCXX_3.4) [CXXABI- |

| |
|--|
| 1.86] |
| vtable for __ctype_abstract_base<wchar_t>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.54 Class ctype<char>

8.1.54.1 Class data for ctype<char>

The virtual table for the std::ctype<char> class is described by Table 8-138

Table 8-138 Primary vtable for ctype<char>

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for ctype<char> |
| vfunc[0]: | ctype<char>::~~ctype() |
| vfunc[1]: | ctype<char>::~~ctype() |
| vfunc[2]: | ctype<char>::do_toupper(char) const |
| vfunc[3]: | ctype<char>::do_toupper(char*, char const*) const |
| vfunc[4]: | ctype<char>::do_tolower(char) const |
| vfunc[5]: | ctype<char>::do_tolower(char*, char const*) const |
| vfunc[6]: | ctype<char>::do_widen(char) const |
| vfunc[7]: | ctype<char>::do_widen(char const*, char const*, char*) const |
| vfunc[8]: | ctype<char>::do_narrow(char, char) const |
| vfunc[9]: | ctype<char>::do_narrow(char const*, char const*, char, char*) const |

8.1.54.2 Interfaces for Class ctype<char>

An LSB conforming implementation shall provide the generic methods for Class std::ctype<char> specified in Table 8-139, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-139 libstdcxx - Class ctype<char> Function Interfaces

| |
|--|
| ctype<char>::do_tolower(char*, char const*) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<char>::do_tolower(char) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<char>::do_toupper(char*, char const*) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<char>::do_toupper(char) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<char>::do_widen(char const*, char const*, char*) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<char>::do_widen(char) const(GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| <code>ctype<char>::do_narrow(char const*, char const*, char, char*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<char>::do_narrow(char, char) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<char>::classic_table()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<char>::~ctype()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<char>::~ctype()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<char>::~ctype()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<ctype<char> >(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::ctype<char>` specified in Table 8-140, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-140 libstdcxx - Class `ctype<char>` Data Interfaces

| |
|---|
| <code>ctype<char>::table_size(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<char>::id(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>typeinfo for ctype<char>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for ctype<char>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for ctype<char>(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.55 Class `ctype<wchar_t>`

8.1.55.1 Class data for `ctype<wchar_t>`

The virtual table for the `std::ctype<wchar_t>` class is described by Table 8-141

Table 8-141 Primary vtable for `ctype<wchar_t>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo for ctype<wchar_t></code> |
| <code>vfunc[0]:</code> | <code>ctype<wchar_t>::~~ctype()</code> |
| <code>vfunc[1]:</code> | <code>ctype<wchar_t>::~~ctype()</code> |
| <code>vfunc[2]:</code> | <code>ctype<wchar_t>::do_is(unsigned short, wchar_t) const</code> |
| <code>vfunc[3]:</code> | <code>ctype<wchar_t>::do_is(wchar_t const*, wchar_t const*, unsigned short*) const</code> |
| <code>vfunc[4]:</code> | <code>ctype<wchar_t>::do_scan_is(unsigned short, wchar_t const*, wchar_t const*) const</code> |
| <code>vfunc[5]:</code> | <code>ctype<wchar_t>::do_scan_not(unsigned short, wchar_t const*, wchar_t const*) const</code> |

| | |
|------------|--|
| vfunc[6]: | ctype<wchar_t>::do_toupper(wchar_t) const |
| vfunc[7]: | ctype<wchar_t>::do_toupper(wchar_t*, wchar_t const*) const |
| vfunc[8]: | ctype<wchar_t>::do_tolower(wchar_t) const |
| vfunc[9]: | ctype<wchar_t>::do_tolower(wchar_t*, wchar_t const*) const |
| vfunc[10]: | ctype<wchar_t>::do_widen(char) const |
| vfunc[11]: | ctype<wchar_t>::do_widen(char const*, char const*, wchar_t*) const |
| vfunc[12]: | ctype<wchar_t>::do_narrow(wchar_t, char) const |
| vfunc[13]: | ctype<wchar_t>::do_narrow(wchar_t const*, wchar_t const*, char, char*) const |

The Run Time Type Information for the std::ctype<wchar_t> class is described by Table 8-142

Table 8-142 typeinfo for ctype<wchar_t>

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for ctype<wchar_t> |

8.1.55.2 Interfaces for Class ctype<wchar_t>

An LSB conforming implementation shall provide the generic methods for Class std::ctype<wchar_t> specified in Table 8-143, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-143 libstdc++ - Class ctype<wchar_t> Function Interfaces

| |
|---|
| ctype<wchar_t>::do_scan_is(unsigned short, wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<wchar_t>::do_tolower(wchar_t*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<wchar_t>::do_tolower(wchar_t) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<wchar_t>::do_toupper(wchar_t*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<wchar_t>::do_toupper(wchar_t) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<wchar_t>::do_scan_not(unsigned short, wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| ctype<wchar_t>::M_convert_to_wmask(unsigned short) const(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>ctype<wchar_t>::do_is(wchar_t const*, wchar_t const*, unsigned short*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::do_is(unsigned short, wchar_t) const(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>ctype<wchar_t>::do_widen(char const*, char const*, wchar_t*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::do_widen(char) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::do_narrow(wchar_t const*, wchar_t const*, char, char*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::do_narrow(wchar_t, char) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::_M_initialize_ctype()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::~ctype()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::~ctype()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype<wchar_t>::~ctype()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::ctype<wchar_t>` specified in Table 8-144, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-144 libstdc++ - Class `ctype<wchar_t>` Data Interfaces

| |
|--|
| <code>ctype<wchar_t>::id(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>typeinfo for ctype<wchar_t>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for ctype<wchar_t>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for ctype<wchar_t>(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.56 Class `ctype_byname<char>`

8.1.56.1 Class data for `ctype_byname<char>`

The virtual table for the `std::ctype_byname<char>` class is described by Table 8-145

Table 8-145 Primary vtable for `ctype_byname<char>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo for ctype_byname<char></code> |
| <code>vfunc[0]:</code> | <code>ctype_byname<char>::~ctype_byname()</code> |
| <code>vfunc[1]:</code> | <code>ctype_byname<char>::~ctype_byname()</code> |
| <code>vfunc[2]:</code> | <code>ctype<char>::do_toupper(char) const</code> |
| <code>vfunc[3]:</code> | <code>ctype<char>::do_toupper(char*, char const*) const</code> |

| | |
|-----------|---|
| vfunc[4]: | ctype<char>::do_tolower(char) const |
| vfunc[5]: | ctype<char>::do_tolower(char*, char const*) const |
| vfunc[6]: | ctype<char>::do_widen(char) const |
| vfunc[7]: | ctype<char>::do_widen(char const*, char const*, char*) const |
| vfunc[8]: | ctype<char>::do_narrow(char, char) const |
| vfunc[9]: | ctype<char>::do_narrow(char const*, char const*, char, char*) const |

The Run Time Type Information for the `std::ctype_byname<char>` class is described by Table 8-146

Table 8-146 typeinfo for `ctype_byname<char>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>ctype_byname<char></code> |

8.1.56.2 Interfaces for Class `ctype_byname<char>`

An LSB conforming implementation shall provide the generic methods for Class `std::ctype_byname<char>` specified in Table 8-147, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-147 libstdcxx - Class `ctype_byname<char>` Function Interfaces

| |
|---|
| <code>ctype_byname<char>::~~ctype_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype_byname<char>::~~ctype_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype_byname<char>::~~ctype_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::ctype_byname<char>` specified in Table 8-148, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-148 libstdcxx - Class `ctype_byname<char>` Data Interfaces

| |
|---|
| typeinfo for <code>ctype_byname<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>ctype_byname<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>ctype_byname<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.57 Class `ctype_byname<wchar_t>`

8.1.57.1 Class data for `ctype_byname<wchar_t>`

The virtual table for the `std::ctype_byname<wchar_t>` class is described by Table 8-149

Table 8-149 Primary vtable for `ctype_byname<wchar_t>`

| | |
|-------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>ctype_byname<wchar_t></code> |
| <code>vfunc[0]:</code> | <code>ctype_byname<wchar_t>::~~ctype_byname()</code> |
| <code>vfunc[1]:</code> | <code>ctype_byname<wchar_t>::~~ctype_byname()</code> |
| <code>vfunc[2]:</code> | <code>ctype<wchar_t>::do_is(unsigned short, wchar_t) const</code> |
| <code>vfunc[3]:</code> | <code>ctype<wchar_t>::do_is(wchar_t const*, wchar_t const*, unsigned short*) const</code> |
| <code>vfunc[4]:</code> | <code>ctype<wchar_t>::do_scan_is(unsigned short, wchar_t const*, wchar_t const*) const</code> |
| <code>vfunc[5]:</code> | <code>ctype<wchar_t>::do_scan_not(unsigned short, wchar_t const*, wchar_t const*) const</code> |
| <code>vfunc[6]:</code> | <code>ctype<wchar_t>::do_toupper(wchar_t) const</code> |
| <code>vfunc[7]:</code> | <code>ctype<wchar_t>::do_toupper(wchar_t*, wchar_t const*) const</code> |
| <code>vfunc[8]:</code> | <code>ctype<wchar_t>::do_tolower(wchar_t) const</code> |
| <code>vfunc[9]:</code> | <code>ctype<wchar_t>::do_tolower(wchar_t*, wchar_t const*) const</code> |
| <code>vfunc[10]:</code> | <code>ctype<wchar_t>::do_widen(char) const</code> |
| <code>vfunc[11]:</code> | <code>ctype<wchar_t>::do_widen(char const*, char const*, wchar_t*) const</code> |
| <code>vfunc[12]:</code> | <code>ctype<wchar_t>::do_narrow(wchar_t, char) const</code> |
| <code>vfunc[13]:</code> | <code>ctype<wchar_t>::do_narrow(wchar_t const*, wchar_t const*, char, char*) const</code> |

The Run Time Type Information for the `std::ctype_byname<wchar_t>` class is described by Table 8-150

Table 8-150 typeinfo for `ctype_byname<wchar_t>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
|-------------|---|

| | |
|------|--|
| Name | typeinfo name for ctype_byname<wchar_t> |
|------|--|

8.1.57.2 Interfaces for Class `ctype_byname<wchar_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::ctype_byname<wchar_t>` specified in Table 8-151, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-151 libstdcxx - Class `ctype_byname<wchar_t>` Function Interfaces

| |
|--|
| <code>ctype_byname<wchar_t>::~~ctype_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype_byname<wchar_t>::~~ctype_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ctype_byname<wchar_t>::~~ctype_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::ctype_byname<wchar_t>` specified in Table 8-152, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-152 libstdcxx - Class `ctype_byname<wchar_t>` Data Interfaces

| |
|--|
| typeinfo for <code>ctype_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>ctype_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>ctype_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.58 Class `basic_string<char, char_traits<char>, allocator<char>>`

8.1.58.1 Interfaces for Class `basic_string<char, char_traits<char>, allocator<char>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_string<char, std::char_traits<char>, std::allocator<char>>` specified in Table 8-153, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-153 libstdcxx - Class `basic_string<char, char_traits<char>, allocator<char>>` Function Interfaces

| |
|---|
| <code>basic_string<char, char_traits<char>, allocator<char>>::_M_disjunct(char const*) const(GLIBCXX_3.4.5) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>>::get_allocator() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>>::end() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>>::_Rep::_M_is_leaked() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>>::_Rep::_M_is_shared() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>>::data() const(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| <code>basic_string<char, char_traits<char>, allocator<char> >::rend()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::size()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::begin()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::c_str()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::empty()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_M_rep()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::length()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::rbegin()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_M_data()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_M_iend()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::compare(char const*)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::compare(basic_string<char, char_traits<char>, allocator<char> > const&)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::capacity()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::max_size()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_M_ibegin()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_Alloc_hider::_Alloc_hider(char*, allocator<char> const&)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_Alloc_hider::_Alloc_hider(char*, allocator<char> const&)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_M_leak_hard()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_S_empty_rep()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_S_copy_chars(char*, __gnu_cxx::__normal_iterator<char const*, basic_string<char,</code> |

| |
|---|
| <code>char_traits<char>, allocator<char> > >, __gnu_cxx::__normal_iterator<char const*, basic_string<char, char_traits<char>, allocator<char> > > >)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__S_copy_chars(char*, __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> > >)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__S_copy_chars(char*, char const*, char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__S_copy_chars(char*, char*, char*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::end()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_M_destroy(allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_M_dispose(allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_M_refcopy()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_M_refdata()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_S_empty_rep()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_M_set_leaked()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_M_set_sharable()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__Rep::_M_grab(allocator<char> const&, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::__rend()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::swap(basic_string<char, char_traits<char>, allocator<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::begin()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::clear()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::erase(__gnu_cxx::__normal_iterator<char*, basic_string<char, char_traits<char>, allocator<char> > >)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::erase(__gnu_cxx::__normal_iterator<char*, basic_string<char,</code> |

| |
|---|
| <code>char_traits<char>, allocator<char> > >, __gnu_cxx::__normal_iterator<char*, basic_string<char, char_traits<char>, allocator<char> > >, char*, char*)>(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>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> > >, __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> > >)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::push_back(char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(char const*, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(__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> > >, __gnu_cxx::__normal_iterator<char*, basic_string<char, char_traits<char>, allocator<char> > >, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(char const*>(char const*, char const*, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(char*>(char*, char*, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(char const*, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(__gnu_cxx::__normal_iterator<char*, basic_string<char, char_traits<char>, allocator<char> > > ></code> |

| |
|---|
| <code>>(_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> > >, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string<char const*>(char const*, char const*, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::basic_string<char*>(char*, char*, allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::~~basic_string()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::~~basic_string()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::operator=(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::operator=(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::operator=(char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::operator+=(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::operator+=(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::operator+=(char)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_string<char, std::char_traits<char>, std::allocator<char> >` specified in Table 8-154, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-154 libstdc++ - Class `basic_string<char, char_traits<char>, allocator<char> >` Data Interfaces

| |
|--|
| <code>basic_string<char, char_traits<char>, allocator<char> >::_Rep::_S_max_size(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_Rep::_S_terminal(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::_Rep::_S_empty_rep_storage(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char> >::npos(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.59 Class `basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

8.1.59.1 Interfaces for Class `basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_string<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` specified in Table 8-155, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-155 libstdcxx - Class `basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >` Function Interfaces

| |
|---|
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::_M_disjunct(wchar_t const*)</code> <code>const(GLIBCXX_3.4.5) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::get_allocator()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::end()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::_Rep::_M_is_leaked()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::_Rep::_M_is_shared()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::data()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::rend()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::size()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::begin()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::c_str()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::empty()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::_M_rep()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::length()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::rbegin()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::_M_data()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::_M_iend()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(wchar_t const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::capacity() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::max_size() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::M_ibegin() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>:: _Alloc_hider:: _Alloc_hider(wchar_t*, allocator<wchar_t> const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>:: _Alloc_hider:: _Alloc_hider(wchar_t*, allocator<wchar_t> const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::M_leak_hard()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::S_empty_rep()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::S_copy_chars(wchar_t*, __gnu_cxx::__normal_iterator<wchar_t const*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >, __gnu_cxx::__normal_iterator<wchar_t const*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> > >)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::S_copy_chars(wchar_t*, __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>> > >)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::S_copy_chars(wchar_t*, wchar_t const*, wchar_t const*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::S_copy_chars(wchar_t*, wchar_t*, wchar_t*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::end()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>:: _Rep::M_destroy(allocator<wchar_t> const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>:: _Rep::M_dispose(allocator<wchar_t> const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>:: _Rep::M_refcopy()</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_M_refdata()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_S_empty_rep()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_M_set_leaked()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_M_set_sharable()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_M_grab(allocator<wchar_t> const&, allocator<wchar_t> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_rend()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_swap(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> &)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_begin()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_clear()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_erase(__gnu_cxx::__normal_iterator<wchar_t*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>> >)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_erase(__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>>> >)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_append(wchar_t const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_append(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_assign(wchar_t const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_assign(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>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>>> >, wchar_t)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_rbegin()(GLIBCXX_3.4) [ISOCXX]</code> |

[illegible]

| |
|--|
| <code>>::basic_string<wchar_t*>(wchar_t*, wchar_t*, allocator<wchar_t> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::~~basic_string()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::~~basic_string()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::operator=(wchar_t const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::operator=(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::operator=(wchar_t)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::operator+=(wchar_t const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::operator+=(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> >::operator+=(wchar_t)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>> operator+<char, char_traits<char>, allocator<char>> (char const*, basic_string<char, char_traits<char>, allocator<char>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>> operator+<char, char_traits<char>, allocator<char>> (basic_string<char, char_traits<char>, allocator<char>> > const&, basic_string<char, char_traits<char>, allocator<char>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<char, char_traits<char>, allocator<char>> operator+<char, char_traits<char>, allocator<char>> (char, basic_string<char, char_traits<char>, allocator<char>> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> operator+<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> (wchar_t const*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> operator+<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> > (basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> operator+<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> (wchar_t, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_string<wchar_t,` `std::char_traits<wchar_t>`,

`std::allocator<wchar_t>` > specified in Table 8-156, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-156 libstdcxx - Class `basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>` > Data Interfaces

| |
|--|
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::Rep::S_max_size(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::Rep::S_terminal(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::Rep::S_empty_rep_storage(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::npos(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.60 Class `basic_stringstream<char, char_traits<char>, allocator<char>` >

8.1.60.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_stringstream<char, std::char_traits<char>, std::allocator<char>` > class is described by Table 8-157

Table 8-157 VTT for `basic_stringstream<char, char_traits<char>, allocator<char>` >

| | |
|-------------------|---|
| VTT Name | <code>_ZTTSt18basic_stringstreamIcSt11char_traitsIcESaIcEE</code> |
| Number of Entries | 10 |

8.1.60.2 Interfaces for Class `basic_stringstream<char, char_traits<char>, allocator<char>` >

An LSB conforming implementation shall provide the generic methods for Class `std::basic_stringstream<char, std::char_traits<char>, std::allocator<char>` > specified in Table 8-158, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-158 libstdcxx - Class `basic_stringstream<char, char_traits<char>, allocator<char>` > Function Interfaces

| |
|---|
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::str() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::rdbuf() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::str(basic_string<char, char_traits<char>, allocator<char>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::basic_stringstream(basic_string<char, char_traits<char>, allocator<char> > const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::basic_stringstream(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::basic_stringstream(basic_string<char, char_traits<char>, allocator<char> > const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::basic_stringstream(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::~~basic_stringstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::~~basic_stringstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringstream<char, char_traits<char>, allocator<char>>::~~basic_stringstream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >` specified in Table 8-159, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-159 libstdcxx - Class `basic_stringstream<char, char_traits<char>, allocator<char> >` Data Interfaces

| |
|--|
| <code>typeid for basic_stringstream<char, char_traits<char>, allocator<char>> (GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_stringstream<char, char_traits<char>, allocator<char> > (GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_stringstream<char, char_traits<char>, allocator<char>> (GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_stringstream<char, char_traits<char>, allocator<char>> (GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.61 Class `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

8.1.61.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_stringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` class is described by Table 8-160

Table 8-160 VTT for `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

| | |
|-------------------|---|
| VTT Name | <code>_ZTTSt18basic_stringstreamIwSt11char_traitsIwESaIwEE</code> |
| Number of Entries | 10 |

8.1.61.2 Interfaces for Class `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_stringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` specified in Table 8-161, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-161 `libstdcxx` - Class `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >` Function Interfaces

| |
|--|
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::str() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::str(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::basic_stringstream(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::basic_stringstream(_Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::basic_stringstream(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::basic_stringstream(_Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_stringstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_stringstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_stringstream()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_stringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` specified in Table 8-162, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-162 libstdcxx - Class basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> Data Interfaces

| |
|--|
| typeinfo for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86] |
| VTT for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.62 Class basic_istringstream<char, char_traits<char>, allocator<char>>

8.1.62.1 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 in the relevant architecture specific part of this specification.

The VTT for the std::basic_istringstream<char, std::char_traits<char>, std::allocator<char>> class is described by Table 8-163

Table 8-163 VTT for basic_istringstream<char, char_traits<char>, allocator<char>>

| | |
|-------------------|---|
| VTT Name | _ZTTSt19basic_istringstreamIcSt11char_traitsIcESaIcEE |
| Number of Entries | 4 |

8.1.62.2 Interfaces for Class basic_istringstream<char, char_traits<char>, allocator<char>>

An LSB conforming implementation shall provide the generic methods for Class std::basic_istringstream<char, std::char_traits<char>, std::allocator<char>> specified in Table 8-164, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-164 libstdcxx - Class basic_istringstream<char, char_traits<char>, allocator<char>> Function Interfaces

| |
|---|
| basic_istringstream<char, char_traits<char>, allocator<char>>::str() const(GLIBCXX_3.4) [ISOCXX] |
| basic_istringstream<char, char_traits<char>, allocator<char>>::rdbuf() const(GLIBCXX_3.4) [ISOCXX] |
| basic_istringstream<char, char_traits<char>, allocator<char>>::str(basic_string<char, char_traits<char>, allocator<char>> const&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istringstream<char, char_traits<char>, allocator<char>>::basic_istringstream(basic_string<char, char_traits<char>, allocator<char>> > const&, _ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>basic_istream<char, char_traits<char>, allocator<char>>::basic_istream(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char>, allocator<char>>::basic_istream(basic_string<char, char_traits<char>, allocator<char>> const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char>, allocator<char>>::basic_istream(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char>, allocator<char>>::~~basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char>, allocator<char>>::~~basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char>, allocator<char>>::~~basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_istream<char, std::char_traits<char>, std::allocator<char>>` specified in Table 8-165, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-165 libstdcxx - Class `basic_istream<char, char_traits<char>, allocator<char>>` Data Interfaces

| |
|--|
| <code>typeid for basic_istream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_istream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_istream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_istream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.63 Class `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

8.1.63.1 Class data for `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

The virtual table for the `std::basic_istream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` class is described in the relevant architecture specific part of this specification.

The VTT for the `std::basic_istream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` class is described by Table 8-166

Table 8-166 VTT for `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

| | |
|-------------------|--|
| VTT Name | <code>_ZTTSt19basic_istreamIwSt11char_traitsIwESaIwEE</code> |
| Number of Entries | 4 |

8.1.63.2 Interfaces for Class `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_istream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` specified in Table 8-167, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-167 libstdcxx - Class `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>` Function Interfaces

| |
|--|
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::str() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::str(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_istream(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_istream(_Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_istream(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_istream(_Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~~basic_istream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~~basic_istream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~~basic_istream()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_istream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` specified in Table 8-168, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-168 libstdcxx - Class `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>` Data Interfaces

| |
|--|
| <code>typeid</code> for <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeid</code> name for <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| VTT for <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>></code> (GLIBCXX_3.4) [CXXABI-1.86] |

vtable for `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >` (GLIBCXX_3.4) [CXXABI-1.86]

8.1.64 Class `basic_ostringstream<char, char_traits<char>, allocator<char> >`

8.1.64.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_ostringstream<char, std::char_traits<char>, std::allocator<char> >` class is described by Table 8-169

Table 8-169 VTT for `basic_ostringstream<char, char_traits<char>, allocator<char> >`

| | |
|-------------------|--|
| VTT Name | <code>_ZTTSt19basic_ostringstreamIcSt11char_traitsIcESaIcEE</code> |
| Number of Entries | 4 |

8.1.64.2 Interfaces for Class `basic_ostringstream<char, char_traits<char>, allocator<char> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ostringstream<char, std::char_traits<char>, std::allocator<char> >` specified in Table 8-170, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-170 `libstdcxx` - Class `basic_ostringstream<char, char_traits<char>, allocator<char> >` Function Interfaces

| |
|---|
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::str()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::rdbuf()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::str(basic_string<char, char_traits<char>, allocator<char> > const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::basic_ostringstream(basic_string<char, char_traits<char>, allocator<char> > const&, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::basic_ostringstream(_Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::basic_ostringstream(basic_string<char, char_traits<char>, allocator<char> > const&, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::basic_ostringstream(_Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char> ></code> |

| |
|---|
| <code>>::~basic_ostringstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char>> >::~basic_ostringstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<char, char_traits<char>, allocator<char>> >::~basic_ostringstream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ostringstream<char, std::char_traits<char>, std::allocator<char>>` specified in Table 8-171, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-171 libstdc++ - Class `basic_ostringstream<char, char_traits<char>, allocator<char>>` Data Interfaces

| |
|--|
| <code>typename for basic_ostringstream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typename name for basic_ostringstream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_ostringstream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_ostringstream<char, char_traits<char>, allocator<char>> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.65 Class `basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

8.1.65.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_ostringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` class is described by Table 8-172

Table 8-172 VTT for `basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

| | |
|-------------------|--|
| VTT Name | <code>_ZTTSt19basic_ostringstreamIwSt11char_traitsIwESaIwEE</code> |
| Number of Entries | 4 |

8.1.65.2 Interfaces for Class `basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ostringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` specified in Table 8-173, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-173 libstdcxx - Class basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> Function Interfaces

| |
|---|
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::str() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::str(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_ostringstream(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_ostringstream(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_ostringstream(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_ostringstream(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~~basic_ostringstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~~basic_ostringstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~~basic_ostringstream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ostringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` specified in Table 8-174, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-174 libstdcxx - Class basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> Data Interfaces

| |
|--|
| <code>typeid for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.66 Class `basic_stringbuf<char, char_traits<char>, allocator<char> >`

8.1.66.1 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 Table 8-175

Table 8-175 Primary vtable for `basic_stringbuf<char, char_traits<char>, allocator<char> >`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>basic_stringbuf<char, char_traits<char>, allocator<char> ></code> |
| vfunc[0]: | <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::~~basic_stringbuf()</code> |
| vfunc[1]: | <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::~~basic_stringbuf()</code> |
| vfunc[2]: | <code>basic_streambuf<char, char_traits<char> >::imbue(locale const&)</code> |
| vfunc[3]: | See The Architecture Specific Specification |
| vfunc[4]: | See The Architecture Specific Specification |
| vfunc[5]: | <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code> |
| vfunc[6]: | <code>basic_streambuf<char, char_traits<char> >::sync()</code> |
| vfunc[7]: | <code>basic_streambuf<char, char_traits<char> >::showmanyc()</code> |
| vfunc[8]: | See The Architecture Specific Specification |
| vfunc[9]: | <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::underflow()</code> |
| vfunc[10]: | <code>basic_streambuf<char, char_traits<char> >::uflow()</code> |
| vfunc[11]: | <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::pbackfail(int)</code> |

| | |
|------------|---|
| vfunc[12]: | See The Architecture Specific Specification |
| vfunc[13]: | basic_stringbuf<char, char_traits<char>, allocator<char> >::overflow(int) |

The Run Time Type Information for the std::basic_stringbuf<char, std::char_traits<char>, std::allocator<char> > class is described by Table 8-176

Table 8-176 typeid for basic_stringbuf<char, char_traits<char>, allocator<char> >

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for basic_stringbuf<char, char_traits<char>, allocator<char> > |

8.1.66.2 Interfaces for Class basic_stringbuf<char, char_traits<char>, allocator<char> >

An LSB conforming implementation shall provide the generic methods for Class std::basic_stringbuf<char, std::char_traits<char>, std::allocator<char> > specified in Table 8-177, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-177 libstdc++ - Class basic_stringbuf<char, char_traits<char>, allocator<char> > Function Interfaces

| |
|---|
| basic_stringbuf<char, char_traits<char>, allocator<char> >::str() const(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::M_update_egptr()(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::M_stringbuf_init(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::str(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::overflow(int)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::pbackfail(int)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::showmanyc()(GLIBCXX_3.4.6) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> >::underflow()(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<char, char_traits<char>, allocator<char> |

| |
|---|
| <code>>::basic_stringbuf(basic_string<char, char_traits<char>, allocator<char> > const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::basic_stringbuf(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::basic_stringbuf(basic_string<char, char_traits<char>, allocator<char> > const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::basic_stringbuf(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::~~basic_stringbuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringbuf<char, char_traits<char>, allocator<char> >::~~basic_stringbuf()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_stringbuf<char, std::char_traits<char>, std::allocator<char> >` specified in Table 8-178, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-178 libstdcxx - Class `basic_stringbuf<char, char_traits<char>, allocator<char> >` Data Interfaces

| |
|--|
| <code>typeid for basic_stringbuf<char, char_traits<char>, allocator<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_stringbuf<char, char_traits<char>, allocator<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_stringbuf<char, char_traits<char>, allocator<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.67 Class `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

8.1.67.1 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 Table 8-179

Table 8-179 Primary vtable for `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeid for basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> ></code> |
| <code>vfunc[0]:</code> | <code>basic_stringbuf<wchar_t, char_traits<wchar_t>,</code> |

| | |
|------------|--|
| | allocator<wchar_t> >::~basic_stringbuf() |
| vfunc[1]: | basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringbuf() |
| vfunc[2]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&) |
| vfunc[3]: | See The Architecture Specific Specification |
| vfunc[4]: | See The Architecture Specific Specification |
| vfunc[5]: | basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode) |
| vfunc[6]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::sync() |
| vfunc[7]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::showmanyc() |
| vfunc[8]: | See The Architecture Specific Specification |
| vfunc[9]: | basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::underflow() |
| vfunc[10]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::uflow() |
| vfunc[11]: | basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::pbackfail(unsigned int) |
| vfunc[12]: | See The Architecture Specific Specification |
| vfunc[13]: | basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::overflow(unsigned int) |

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 Table 8-180

Table 8-180 typeid for basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > |

8.1.67.2 Interfaces for Class basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

An LSB conforming implementation shall provide the generic methods for Class std::basic_stringbuf<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > specified in Table 8-181, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-181 libstdc++ - 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> >::str() const(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::M_update_egptr()(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::M_stringbuf_init(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::str(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::overflow(unsigned int)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::pbackfail(unsigned int)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::showmanyc()(GLIBCXX_3.4.6) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::underflow()(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::basic_stringbuf(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::basic_stringbuf(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::basic_stringbuf(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_stringbuf(_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~basic_stringbuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~basic_stringbuf()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_stringbuf<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t>>` specified in Table 8-182, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-182 libstdcxx - Class `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>` Data Interfaces

| |
|--|
| <code>typeid(basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>)(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid(basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_stringbuf()(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid(basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_stringbuf()(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.68 Class `basic_istream<char, char_traits<char>>`

8.1.68.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_istream<char, std::char_traits<char>>` class is described by Table 8-183

Table 8-183 VTT for `basic_istream<char, char_traits<char>>`

| | |
|-------------------|---------------------|
| VTT Name | <code>_ZTTSd</code> |
| Number of Entries | 7 |

8.1.68.2 Interfaces for Class `basic_istream<char, char_traits<char>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_istream<char, std::char_traits<char>>` specified in Table 8-184, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-184 libstdcxx - Class `basic_istream<char, char_traits<char>>` Function Interfaces

| |
|---|
| <code>basic_istream<char, char_traits<char>>::basic_istream(basic_streambuf<char, char_traits<char>>*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char>>::basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| <code>basic_istream<char, char_traits<char> >::basic_istream(basic_streambuf<char, char_traits<char> >*)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<char, char_traits<char> >::basic_istream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<char, char_traits<char> >& operator>><char_traits<char> >(basic_istream<char, char_traits<char> >&, signed char*)(GLIBCXX_3.4)</code> [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_istream<char, std::char_traits<char> >` specified in Table 8-185, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-185 libstdcxx - Class `basic_istream<char, char_traits<char> >` Data Interfaces

| |
|--|
| <code>typeid for basic_istream<char, char_traits<char> >(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| <code>typeid name for basic_istream<char, char_traits<char> >(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| VTT for <code>basic_istream<char, char_traits<char> >(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| vtable for <code>basic_istream<char, char_traits<char> >(GLIBCXX_3.4)</code> [CXXABI-1.86] |

8.1.69 Class `basic_istream<wchar_t, char_traits<wchar_t> >`

8.1.69.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_istream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 8-186

Table 8-186 VTT for `basic_istream<wchar_t, char_traits<wchar_t> >`

| | |
|-------------------|---|
| VTT Name | <code>_ZTTSt14basic_istreamIwSt11char_traitsIwEE</code> |
| Number of Entries | 7 |

8.1.69.2 Interfaces for Class `basic_iostream<wchar_t, char_traits<wchar_t> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_iostream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-187, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-187 libstdcxx - Class `basic_iostream<wchar_t, char_traits<wchar_t> >` Function Interfaces

| |
|---|
| <code>basic_iostream<wchar_t, char_traits<wchar_t> >::basic_iostream(basic_streambuf<wchar_t, char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_iostream<wchar_t, char_traits<wchar_t> >::basic_iostream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_iostream<wchar_t, char_traits<wchar_t> >::basic_iostream(basic_streambuf<wchar_t, char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_iostream<wchar_t, char_traits<wchar_t> >::basic_iostream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_iostream<wchar_t, char_traits<wchar_t> >::~~basic_iostream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_iostream<wchar_t, char_traits<wchar_t> >::~~basic_iostream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_iostream<wchar_t, char_traits<wchar_t> >::~~basic_iostream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_iostream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-188, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-188 libstdcxx - Class `basic_iostream<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|--|
| <code>typeid(basic_iostream<wchar_t, char_traits<wchar_t> >)(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid(basic_iostream<wchar_t, char_traits<wchar_t> >)(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VT for basic_iostream<wchar_t, char_traits<wchar_t> > (GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_iostream<wchar_t, char_traits<wchar_t> > (GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.70 Class `basic_istream<char, char_traits<char> >`

8.1.70.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_istream<char, std::char_traits<char> >` class is described by Table 8-189

Table 8-189 VTT for `basic_istream<char, char_traits<char> >`

| | |
|-------------------|---------------------|
| VTT Name | <code>_ZTTSi</code> |
| Number of Entries | 2 |

8.1.70.2 Interfaces for Class `basic_istream<char, char_traits<char> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_istream<char, std::char_traits<char> >` specified in Table 8-190, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-190 `libstdcxx` - Class `basic_istream<char, char_traits<char> >` Function Interfaces

| |
|--|
| <code>basic_istream<char, char_traits<char> >::gcount() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::sentry::operator bool() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::get(basic_streambuf<char, char_traits<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::get(basic_streambuf<char, char_traits<char> >&, char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::get(char&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::peek()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::sync()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::seekg(fpos<__mbstate_t>)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::tellg()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::unget()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::ignore()(GLIBCXX_3.4.5) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::sentry::sentry(basic_istream<char, char_traits<char> >&, bool)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::sentry::sentry(basic_istream<char, char_traits<char> >&, bool)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::putback(char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::basic_istream(basic_streambuf<char, char_traits<char> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::basic_istream()(GLIBCXX_3.4)</code> |

| |
|--|
| [ISOCXX] |
| basic_istream<char, char_traits<char> >::basic_istream(basic_streambuf<char, char_traits<char> >*)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::basic_istream()(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(basic_istream<char, char_traits<char> >& (*) (basic_istream<char, char_traits<char> >&))(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(ios_base& (*)(ios_base&))(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(basic_ios<char, char_traits<char> >& (*) (basic_ios<char, char_traits<char> >&))(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(basic_streambuf<char, char_traits<char> >*)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(void*&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(bool&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(double&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(long double&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(float&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(int&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(unsigned int&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(long&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(unsigned long&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(short&)(GLIBCXX_3.4) [ISOCXX] |
| basic_istream<char, char_traits<char> >::operator>>(unsigned |

| |
|--|
| <code>short&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::operator>>(long long&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >::operator>>(unsigned long long&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& ws<char, char_traits<char> >(basic_istream<char, char_traits<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& getline<char, char_traits<char>, allocator<char> >(basic_istream<char, char_traits<char> >&, basic_string<char, char_traits<char>, allocator<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& getline<char, char_traits<char>, allocator<char> >(basic_istream<char, char_traits<char> >&, basic_string<char, char_traits<char>, allocator<char> >&, char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char_traits<char> >(basic_istream<char, char_traits<char> >&, unsigned char*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char_traits<char> >(basic_istream<char, char_traits<char> >&, signed char&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char_traits<char> >(basic_istream<char, char_traits<char> >&, unsigned char&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, char*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, char&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, _Setiosflags)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, _Setprecision)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, _Resetiosflags)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, _Setw)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, _Setbase)(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char> >(basic_istream<char, char_traits<char> >&, _Setfill<char>)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><char, char_traits<char>, allocator<char> >(basic_istream<char, char_traits<char> >&, basic_string<char, char_traits<char>, allocator<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><double, char, char_traits<char> >(basic_istream<char, char_traits<char> >&, complex<double>&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><long double, char, char_traits<char> >(basic_istream<char, char_traits<char> >&, complex<long double>&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<char, char_traits<char> >& operator>><float, char, char_traits<char> >(basic_istream<char, char_traits<char> >&, complex<float>&)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_istream<char, std::char_traits<char> >` specified in Table 8-191, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-191 libstdcxx - Class `basic_istream<char, char_traits<char> >` Data Interfaces

| |
|---|
| <code>typeid for basic_istream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_istream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_istream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_istream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.71 Class `basic_istream<wchar_t, char_traits<wchar_t> >`

8.1.71.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_istream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 8-192

Table 8-192 VTT for `basic_istream<wchar_t, char_traits<wchar_t> >`

| | |
|-------------------|---|
| VTT Name | <code>_ZTTSt13basic_istreamIwSt11char_traitsIwEE</code> |
| Number of Entries | 2 |

8.1.71.2 Interfaces for Class `basic_istream<wchar_t, char_traits<wchar_t>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_istream<wchar_t, std::char_traits<wchar_t>>` specified in Table 8-193, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-193 libstdcxx - Class `basic_istream<wchar_t, char_traits<wchar_t>>` Function Interfaces

| |
|--|
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::gcount()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::sentry::operator bool()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::get(basic_streambuf<wchar_t, char_traits<wchar_t>>&)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::get(basic_streambuf<wchar_t, char_traits<wchar_t>>&, wchar_t)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::get(wchar_t&)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::get()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::peek()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::sync()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::seekg(fpos<__mbstate_t>)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::tellg()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::unget()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::ignore()(GLIBCXX_3.4.5)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::sentry::sentry(basic_istream<wchar_t, char_traits<wchar_t>>&, bool)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::sentry::sentry(basic_istream<wchar_t, char_traits<wchar_t>>&, bool)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::putback(wchar_t)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_istream<wchar_t, char_traits<wchar_t>>::basic_istream(basic_streambuf<wchar_t, char_traits<wchar_t>></code> |

| |
|--|
| <code>>*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::basic_istream(basic_streambuf<wchar_t, char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(basic_istream<wchar_t, char_traits<wchar_t> >& (*)(basic_istream<wchar_t, char_traits<wchar_t> >&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(ios_base& (*)(ios_base&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(basic_ios<wchar_t, char_traits<wchar_t> >& (*)(basic_ios<wchar_t, char_traits<wchar_t> >&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(basic_streambuf<wchar_t, char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(void*&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(bool&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(double&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(long double&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(float&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(int&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(unsigned int&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(long&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(unsigned long&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(short&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(unsigned</code> |

| |
|---|
| <code>short&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(long long&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::operator>>(unsigned long long&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& ws<wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& getline<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& getline<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >&, wchar_t)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><double, wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, complex<double>&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><long double, wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, complex<long double>&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><float, wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, complex<float>&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, wchar_t*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, wchar_t&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, _Setiosflags)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, _Setprecision)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, _Resetiosflags)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&, _Setw)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >& operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> >&,</code> |

| |
|--|
| <code>_Setbase)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> > & operator>><wchar_t, char_traits<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> > &, _Setfill<wchar_t>)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> > & operator>><wchar_t, char_traits<wchar_t>, allocator<wchar_t> >(basic_istream<wchar_t, char_traits<wchar_t> > &, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > &)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_istream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-194, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-194 libstdcxx - Class `basic_istream<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|---|
| <code>typeinfo for basic_istream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for basic_istream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_istream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_istream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.72 Class `istreambuf_iterator<wchar_t, char_traits<wchar_t> >`

8.1.72.1 Interfaces for Class `istreambuf_iterator<wchar_t, char_traits<wchar_t> >`

An LSB conforming implementation shall provide the generic methods for Class `std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-195, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-195 libstdcxx - Class `istreambuf_iterator<wchar_t, char_traits<wchar_t> >` Function Interfaces

| |
|--|
| <code>istreambuf_iterator<wchar_t, char_traits<wchar_t> >::operator++()(GLIBCXX_3.4.5) [ISOCXX]</code> |
|--|

8.1.73 Class `istreambuf_iterator<char, char_traits<char> >`

8.1.73.1 Interfaces for Class `istreambuf_iterator<char, char_traits<char> >`

An LSB conforming implementation shall provide the generic methods for Class `std::istreambuf_iterator<char, std::char_traits<char> >` specified in Table 8-196, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-196 libstdcxx - Class istreambuf_iterator<char, char_traits<char> > Function Interfaces

| |
|---|
| istreambuf_iterator<char, char_traits<char> >::operator++()(GLIBCXX_3.4.5) [ISOCXX] |
|---|

8.1.74 Class basic_ostream<char, char_traits<char> >**8.1.74.1 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 in the relevant architecture specific part of this specification.

The VTT for the std::basic_ostream<char, std::char_traits<char> > class is described by Table 8-197

Table 8-197 VTT for basic_ostream<char, char_traits<char> >

| | |
|-------------------|--------|
| VTT Name | _ZTTSo |
| Number of Entries | 2 |

8.1.74.2 Interfaces for Class basic_ostream<char, char_traits<char> >

An LSB conforming implementation shall provide the generic methods for Class std::basic_ostream<char, std::char_traits<char> > specified in Table 8-198, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-198 libstdcxx - Class basic_ostream<char, char_traits<char> > Function Interfaces

| |
|--|
| basic_ostream<char, char_traits<char> >::sentry::operator bool() const(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::put(char)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::flush()(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::seekp(fpos<__mbstate_t>)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::tellp()(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::sentry::sentry(basic_ostream<char, char_traits<char> >&)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::sentry::sentry(basic_ostream<char, char_traits<char> >&)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::sentry::~sentry()(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::sentry::~sentry()(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::basic_ostream(basic_streambuf<char, char_traits<char> >*)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<char, char_traits<char> >::basic_ostream()(GLIBCXX_3.4) |

| |
|---|
| [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::basic_ostream(basic_streambuf<char, char_traits<char> >*)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::basic_ostream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::~~basic_ostream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::~~basic_ostream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::~~basic_ostream()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::operator<<(basic_ostream<char, char_traits<char> >& (*) (basic_ostream<char, char_traits<char> >&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(ios_base& (*) (ios_base&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(basic_ios<char, char_traits<char> >& (*) (basic_ios<char, char_traits<char> >&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(void const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(basic_streambuf<char, char_traits<char> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(bool)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::operator<<(double)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::operator<<(long double)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(float)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::operator<<(int)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::operator<<(unsigned int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(long)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::operator<<(unsigned long)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(short)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ostream<char, char_traits<char> >::operator<<(unsigned</code> |

| |
|---|
| <code>short)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(long long)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >::operator<<(unsigned long long)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& endl<char, char_traits<char> >(basic_ostream<char, char_traits<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& ends<char, char_traits<char> >(basic_ostream<char, char_traits<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& flush<char, char_traits<char> >(basic_ostream<char, char_traits<char> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char_traits<char> >(basic_ostream<char, char_traits<char> >&, signed char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char_traits<char> >(basic_ostream<char, char_traits<char> >&, char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char_traits<char> >(basic_ostream<char, char_traits<char> >&, unsigned char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char_traits<char> >(basic_ostream<char, char_traits<char> >&, signed char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char_traits<char> >(basic_ostream<char, char_traits<char> >&, char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char_traits<char> >(basic_ostream<char, char_traits<char> >&, unsigned char)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, _Setiosflags)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, _Setprecision)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, _Resetiosflags)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, _Setw)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, _Setbase)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char,</code> |

| |
|--|
| <code>char_traits<char> >(basic_ostream<char, char_traits<char> >&, _Setfill<char>)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <char, char_traits<char>, allocator<char> >(basic_ostream<char, char_traits<char> >&, basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <double, char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, complex<double> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <long double, char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, complex<long double> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<char, char_traits<char> >& operator<< <float, char, char_traits<char> >(basic_ostream<char, char_traits<char> >&, complex<float> const&)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ostream<char, std::char_traits<char> >` specified in Table 8-199, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-199 libstdcxx - Class `basic_ostream<char, char_traits<char> >` Data Interfaces

| |
|---|
| <code>typeid for basic_ostream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_ostream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_ostream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_ostream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.75 Class `basic_ostream<wchar_t, char_traits<wchar_t> >`

8.1.75.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_ostream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 8-200

Table 8-200 VTT for `basic_ostream<wchar_t, char_traits<wchar_t> >`

| | |
|-------------------|---|
| VTT Name | <code>_ZTTSt13basic_ostreamIwSt11char_traitsIwEE</code> |
| Number of Entries | 2 |

8.1.75.2 Interfaces for Class `basic_ostream<wchar_t, char_traits<wchar_t> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ostream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-201, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-201 libstdcxx - Class `basic_ostream<wchar_t, char_traits<wchar_t> >` Function Interfaces

| |
|--|
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::sentry::operator bool()</code> <code>const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::put(wchar_t)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::flush()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::seekp(fpos<__mbstate_t>)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::tellp()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::sentry::sentry(basic_ostream<wchar_t, char_traits<wchar_t> >&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::sentry::sentry(basic_ostream<wchar_t, char_traits<wchar_t> >&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::sentry::~sentry()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::sentry::~sentry()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::basic_ostream(basic_streambuf<wchar_t, char_traits<wchar_t> >*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::basic_ostream(basic_streambuf<wchar_t, char_traits<wchar_t> >*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::~basic_ostream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::~basic_ostream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::~basic_ostream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(basic_ostream<wchar_t, char_traits<wchar_t> >& (*) (basic_ostream<wchar_t, char_traits<wchar_t> >&))</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(ios_base& (*) (ios_base&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(basic_ios<wchar_t, char_traits<wchar_t> >& (*) (basic_ios<wchar_t, char_traits<wchar_t> >&))(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(void const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(basic_streambuf<wchar_t, char_traits<wchar_t> >*) (GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(bool)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(double)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(long double)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(float)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(unsigned int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(long)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(unsigned long)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(short)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(unsigned short)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(long long)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::operator<<(unsigned long long)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >& endl<wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >& ends<wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >& flush<wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&)(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <double, wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, complex<double> const&)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <long double, wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, complex<long double> const&)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <float, wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, complex<float> const&)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, wchar_t const*)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, char const*)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, wchar_t)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, _Setiosflags)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, _Setprecision)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, _Resetiosflags)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, _Setw)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, _Setbase)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, _Setfill<wchar_t>)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, char)(GLIBCXX_3.4) [ISOCXX] |
| basic_ostream<wchar_t, char_traits<wchar_t> >& operator<< <wchar_t, char_traits<wchar_t>, allocator<wchar_t> >(basic_ostream<wchar_t, char_traits<wchar_t> >&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&)(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ostream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-202, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-202 libstdcxx - Class `basic_ostream<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|--|
| typeinfo for <code>basic_ostream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>basic_ostream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| VTT for <code>basic_ostream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>basic_ostream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.76 Class `basic_fstream<char, char_traits<char> >`

8.1.76.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_fstream<char, std::char_traits<char> >` class is described by Table 8-203

Table 8-203 VTT for `basic_fstream<char, char_traits<char> >`

| | |
|-------------------|---|
| VTT Name | <code>_ZTTSt13basic_fstreamIcSt11char_traitsIcEE</code> |
| Number of Entries | 10 |

8.1.76.2 Interfaces for Class `basic_fstream<char, char_traits<char> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_fstream<char, std::char_traits<char> >` specified in Table 8-204, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-204 libstdcxx - Class `basic_fstream<char, char_traits<char> >` Function Interfaces

| |
|---|
| <code>basic_fstream<char, char_traits<char> >::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<char, char_traits<char> >::is_open() const</code> (GLIBCXX_3.4.5) [ISOCXX] |
| <code>basic_fstream<char, char_traits<char> >::open(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<char, char_traits<char> >::close()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<char, char_traits<char> >::is_open()</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>basic_fstream<char, char_traits<char> >::basic_fstream(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_fstream<char, char_traits<char> >::basic_fstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_fstream<char, char_traits<char> >::basic_fstream(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_fstream<char, char_traits<char> >::basic_fstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_fstream<char, char_traits<char> >::~~basic_fstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_fstream<char, char_traits<char> >::~~basic_fstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_fstream<char, char_traits<char> >::~~basic_fstream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_fstream<char, std::char_traits<char> >` specified in Table 8-205, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-205 libstdcxx - Class `basic_fstream<char, char_traits<char> >` Data Interfaces

| |
|---|
| <code>typeinfo for basic_fstream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for basic_fstream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_fstream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI- 1.86]</code> |
| <code>vtable for basic_fstream<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI- 1.86]</code> |

8.1.77 Class `basic_fstream<wchar_t, char_traits<wchar_t> >`

8.1.77.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_fstream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 8-206

Table 8-206 VTT for `basic_fstream<wchar_t, char_traits<wchar_t> >`

| | |
|-------------------|---|
| VTT Name | <code>_ZTTSt13basic_fstreamIwSt11char_traitsIwEE</code> |
| Number of Entries | 10 |

8.1.77.2 Interfaces for Class `basic_fstream<wchar_t, char_traits<wchar_t>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_fstream<wchar_t, std::char_traits<wchar_t>>` specified in Table 8-207, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-207 libstdc++ - Class `basic_fstream<wchar_t, char_traits<wchar_t>>` Function Interfaces

| |
|---|
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::is_open() const</code> (GLIBCXX_3.4.5) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::open(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::close()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::is_open()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::basic_fstream(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::basic_fstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::basic_fstream(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::basic_fstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::~~basic_fstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::~~basic_fstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_fstream<wchar_t, char_traits<wchar_t>>::~~basic_fstream()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_fstream<wchar_t, std::char_traits<wchar_t>>` specified in Table 8-208, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-208 libstdc++ - Class `basic_fstream<wchar_t, char_traits<wchar_t>>` Data Interfaces

| |
|--|
| <code>typeid</code> for <code>basic_fstream<wchar_t, char_traits<wchar_t>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeid</code> name for <code>basic_fstream<wchar_t, char_traits<wchar_t>></code> (GLIBCXX_3.4) [CXXABI-1.86] |

| |
|--|
| VTT for basic_fstream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for basic_fstream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.78 Class basic_ifstream<char, char_traits<char> >

8.1.78.1 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 in the relevant architecture specific part of this specification.

The VTT for the std::basic_ifstream<char, std::char_traits<char> > class is described by Table 8-209

Table 8-209 VTT for basic_ifstream<char, char_traits<char> >

| | |
|-------------------|---|
| VTT Name | _ZTTSt14basic_ifstreamIcSt11char_traitsIcEE |
| Number of Entries | 4 |

8.1.78.2 Interfaces for Class basic_ifstream<char, char_traits<char> >

An LSB conforming implementation shall provide the generic methods for Class std::basic_ifstream<char, std::char_traits<char> > specified in Table 8-210, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-210 libstdcxx - Class basic_ifstream<char, char_traits<char> > Function Interfaces

| |
|---|
| basic_ifstream<char, char_traits<char> >::rdbuf() const(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::is_open() const(GLIBCXX_3.4.5) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::open(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::close()(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::is_open()(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::basic_ifstream(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::basic_ifstream()(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::basic_ifstream(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::basic_ifstream()(GLIBCXX_3.4) [ISOCXX] |
| basic_ifstream<char, char_traits<char> >::~~basic_ifstream()(GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| <code>basic_ifstream<char, char_traits<char> >::~basic_ifstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ifstream<char, char_traits<char> >::~basic_ifstream()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ifstream<char, std::char_traits<char> >` specified in Table 8-211, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-211 libstdcxx - Class `basic_ifstream<char, char_traits<char> >` Data Interfaces

| |
|---|
| <code>typeid</code> for <code>basic_ifstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeid</code> name for <code>basic_ifstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| VTT for <code>basic_ifstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>basic_ifstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.79 Class `basic_ifstream<wchar_t, char_traits<wchar_t> >`

8.1.79.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_ifstream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 8-212

Table 8-212 VTT for `basic_ifstream<wchar_t, char_traits<wchar_t> >`

| | |
|-------------------|--|
| VTT Name | <code>_ZTTSt14basic_ifstreamlwSt11char_traitslwEE</code> |
| Number of Entries | 4 |

8.1.79.2 Interfaces for Class `basic_ifstream<wchar_t, char_traits<wchar_t> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ifstream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-213, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-213 libstdcxx - Class `basic_ifstream<wchar_t, char_traits<wchar_t> >` Function Interfaces

| |
|--|
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::is_open()</code> |

| |
|---|
| <code>const(GLIBCXX_3.4.5) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::open(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::close()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::is_open()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::basic_ifstream(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::basic_ifstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::basic_ifstream(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::basic_ifstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::~~basic_ifstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::~~basic_ifstream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::~~basic_ifstream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ifstream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-214, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-214 libstdcxx - Class `basic_ifstream<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|---|
| <code>typeinfo for basic_ifstream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo for basic_streambuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for basic_ifstream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for basic_streambuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>VTT for basic_ifstream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_ifstream<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_streambuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.80 Class `basic_ofstream<char, char_traits<char> >`

8.1.80.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_ofstream<char, std::char_traits<char> >` class is described by Table 8-215

Table 8-215 VTT for `basic_ofstream<char, char_traits<char> >`

| | |
|-------------------|--|
| VTT Name | <code>_ZTTSt14basic_ofstreamIcSt11char_traitsIcEE</code> |
| Number of Entries | 4 |

8.1.80.2 Interfaces for Class `basic_ofstream<char, char_traits<char> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ofstream<char, std::char_traits<char> >` specified in Table 8-216, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-216 `libstdc++` - Class `basic_ofstream<char, char_traits<char> >` Function Interfaces

| |
|--|
| <code>basic_ofstream<char, char_traits<char> >::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::is_open() const</code> (GLIBCXX_3.4.5) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::open(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::close()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::is_open()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::basic_ofstream(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::basic_ofstream(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::~~basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::~~basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<char, char_traits<char> >::~~basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ofstream<char, std::char_traits<char> >` specified in Table 8-217, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-217 libstdcxx - Class `basic_ofstream<char, char_traits<char> >` Data Interfaces

| |
|--|
| <code>typeinfo</code> for <code>basic_ofstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeinfo name</code> for <code>basic_ofstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| VTT for <code>basic_ofstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>basic_ofstream<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.81 Class `basic_ofstream<wchar_t, char_traits<wchar_t> >`

8.1.81.1 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 in the relevant architecture specific part of this specification.

The VTT for the `std::basic_ofstream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 8-218

Table 8-218 VTT for `basic_ofstream<wchar_t, char_traits<wchar_t> >`

| | |
|-------------------|--|
| VTT Name | <code>_ZTTSt14basic_ofstreamIwSt11char_traitsIwEE</code> |
| Number of Entries | 4 |

8.1.81.2 Interfaces for Class `basic_ofstream<wchar_t, char_traits<wchar_t> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ofstream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-219, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-219 libstdcxx - Class `basic_ofstream<wchar_t, char_traits<wchar_t> >` Function Interfaces

| |
|--|
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::rdbuf()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::is_open()</code> const(GLIBCXX_3.4.5) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::open(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::close()</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::is_open()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::basic_ofstream(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::basic_ofstream(char const*, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ofstream<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-220, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-220 libstdcxx - Class `basic_ofstream<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|--|
| <code>typeid</code> for <code>basic_ofstream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeid</code> name for <code>basic_ofstream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| VTT for <code>basic_ofstream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>basic_ofstream<wchar_t, char_traits<wchar_t> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.82 Class `basic_streambuf<char, char_traits<char> >`

8.1.82.1 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 Table 8-221

Table 8-221 Primary vtable for `basic_streambuf<char, char_traits<char> >`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeid</code> for <code>basic_streambuf<char, char_traits<char> ></code> |
| <code>vfunc[0]:</code> | <code>basic_streambuf<char,</code> |

| | |
|-------------------------|---|
| | <code>char_traits<char></code> <code>>::~basic_streambuf()</code> |
| <code>vfunc[1]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char></code> <code>>::~basic_streambuf()</code> |
| <code>vfunc[2]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char> >::imbue(locale</code> <code>const&)</code> |
| <code>vfunc[3]:</code> | See The Architecture Specific Specification |
| <code>vfunc[4]:</code> | See The Architecture Specific Specification |
| <code>vfunc[5]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char></code> <code>>::seekpos(fpos<__mbstate_t>,</code> <code>_Ios_Openmode)</code> |
| <code>vfunc[6]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char> >::sync()</code> |
| <code>vfunc[7]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char> >::showmanyc()</code> |
| <code>vfunc[8]:</code> | See The Architecture Specific Specification |
| <code>vfunc[9]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char> >::underflow()</code> |
| <code>vfunc[10]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char> >::uflow()</code> |
| <code>vfunc[11]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char> >::pbackfail(int)</code> |
| <code>vfunc[12]:</code> | See The Architecture Specific Specification |
| <code>vfunc[13]:</code> | <code>basic_streambuf<char,</code> <code>char_traits<char> >::overflow(int)</code> |

The Run Time Type Information for the `std::basic_streambuf<char, std::char_traits<char> >` class is described by Table 8-222

Table 8-222 typeid for `basic_streambuf<char, char_traits<char> >`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__class_type_info</code> |
| Name | typeid name for <code>basic_streambuf<char,</code> <code>char_traits<char> ></code> |

8.1.82.2 Interfaces for Class `basic_streambuf<char, char_traits<char>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_streambuf<char, std::char_traits<char>>` specified in Table 8-223, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-223 libstdc++ - Class `basic_streambuf<char, char_traits<char>>` Function Interfaces

| |
|--|
| <code>basic_streambuf<char, char_traits<char>>::gptr() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::pptr() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::eback() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::egptr() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::epptr() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::pbase() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::getloc() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::pubseekpos(fpos<__mbstate_t>, _Ios_Openmode)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::setg(char*, char*, char*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::setp(char*, char*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::sync()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::gbump(int)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::imbue(locale const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::pbump(int)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::sgetc()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::sputc(char)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::uflow()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::sbumpc()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char>>::snextc()</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>basic_streambuf<char, char_traits<char> >::pubsync()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::sungetc()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::in_avail()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::overflow(int)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::pubimbue(locale const&)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::pbackfail(int)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::showmanyc()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::sputbackc(char)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::underflow()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::basic_streambuf(basic_streambuf<char, char_traits<char> > const&)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::basic_streambuf()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::basic_streambuf(basic_streambuf<char, char_traits<char> > const&)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::basic_streambuf()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::~~basic_streambuf()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::~~basic_streambuf()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::~~basic_streambuf()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_streambuf<char, char_traits<char> >::operator=(basic_streambuf<char, char_traits<char> > const&)(GLIBCXX_3.4)</code> [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_streambuf<char, std::char_traits<char> >` specified in Table 8-224, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-224 libstdcxx - Class `basic_streambuf<char, char_traits<char>>` Data Interfaces

| |
|--|
| typeinfo for <code>basic_streambuf<char, char_traits<char>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>basic_streambuf<char, char_traits<char>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>basic_streambuf<char, char_traits<char>></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.83 Class `basic_streambuf<wchar_t, char_traits<wchar_t>>`

8.1.83.1 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 Table 8-225

Table 8-225 Primary vtable for `basic_streambuf<wchar_t, char_traits<wchar_t>>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>basic_streambuf<wchar_t, char_traits<wchar_t>></code> |
| vfunc[0]: | <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::~basic_streambuf()</code> |
| vfunc[1]: | <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::~basic_streambuf()</code> |
| vfunc[2]: | <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::imbue(locale const&)</code> |
| vfunc[3]: | See The Architecture Specific Specification |
| vfunc[4]: | See The Architecture Specific Specification |
| vfunc[5]: | <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code> |
| vfunc[6]: | <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::sync()</code> |
| vfunc[7]: | <code>basic_streambuf<wchar_t, char_traits<wchar_t>></code> |

| | |
|------------|--|
| | >::showmanyc() |
| vfunc[8]: | See The Architecture Specific Specification |
| vfunc[9]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::underflow() |
| vfunc[10]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::uflow() |
| vfunc[11]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::pbackfail(unsigned int) |
| vfunc[12]: | See The Architecture Specific Specification |
| vfunc[13]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::overflow(unsigned int) |

The Run Time Type Information for the std::basic_streambuf<wchar_t, std::char_traits<wchar_t> > class is described by Table 8-226

Table 8-226 typeid for basic_streambuf<wchar_t, char_traits<wchar_t> >

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__class_type_info |
| Name | typeid name for basic_streambuf<wchar_t, char_traits<wchar_t> > |

8.1.83.2 Interfaces for Class basic_streambuf<wchar_t, char_traits<wchar_t> >

An LSB conforming implementation shall provide the generic methods for Class std::basic_streambuf<wchar_t, std::char_traits<wchar_t> > specified in Table 8-227, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-227 libstdc++ - Class basic_streambuf<wchar_t, char_traits<wchar_t> > Function Interfaces

| |
|---|
| basic_streambuf<wchar_t, char_traits<wchar_t> >::gptr() const(GLIBCXX_3.4) [ISOCXX] |
| basic_streambuf<wchar_t, char_traits<wchar_t> >::pptr() const(GLIBCXX_3.4) [ISOCXX] |
| basic_streambuf<wchar_t, char_traits<wchar_t> >::eback() const(GLIBCXX_3.4) [ISOCXX] |
| basic_streambuf<wchar_t, char_traits<wchar_t> >::egptr() const(GLIBCXX_3.4) [ISOCXX] |
| basic_streambuf<wchar_t, char_traits<wchar_t> >::epptr() const(GLIBCXX_3.4) [ISOCXX] |
| basic_streambuf<wchar_t, char_traits<wchar_t> >::pbase() |

| |
|--|
| <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::getloc()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::pubseekpos(fpos<__mbstate_t>, _Ios_Openmode)(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::setg(wchar_t*, wchar_t*, wchar_t*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::setp(wchar_t*, wchar_t*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sync()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::gbump(int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::pbump(int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sgetc()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sputc(wchar_t)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::uflow()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sbumpc()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::snextc()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::pubsync()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sungetc()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::in_avail()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::overflow(unsigned int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::pubimbue(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t> >::pbackfail(unsigned int)(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::showmanyc()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::sputbackc(wchar_t)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::underflow()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::basic_streambuf(basic_streambuf<wchar_t, char_traits<wchar_t>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::basic_streambuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::basic_streambuf(basic_streambuf<wchar_t, char_traits<wchar_t>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::basic_streambuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::~~basic_streambuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::~~basic_streambuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::~~basic_streambuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_streambuf<wchar_t, char_traits<wchar_t>>::operator=(basic_streambuf<wchar_t, char_traits<wchar_t>> const&)(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.84 Class `basic_filebuf<char, char_traits<char>>`

8.1.84.1 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 Table 8-228

Table 8-228 Primary vtable for `basic_filebuf<char, char_traits<char>>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo for basic_filebuf<char, char_traits<char>></code> |
| <code>vfunc[0]:</code> | <code>basic_filebuf<char, char_traits<char>>::~basic_filebuf()</code> |
| <code>vfunc[1]:</code> | <code>basic_filebuf<char, char_traits<char>>::~basic_filebuf()</code> |
| <code>vfunc[2]:</code> | <code>basic_filebuf<char, char_traits<char>>::imbue(locale const&)</code> |
| <code>vfunc[3]:</code> | See The Architecture Specific |

| | Specification |
|------------|--|
| vfunc[4]: | See The Architecture Specific Specification |
| vfunc[5]: | <code>basic_filebuf<char, char_traits<char>>::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code> |
| vfunc[6]: | <code>basic_filebuf<char, char_traits<char>>::sync()</code> |
| vfunc[7]: | <code>basic_filebuf<char, char_traits<char>>::showmanyc()</code> |
| vfunc[8]: | See The Architecture Specific Specification |
| vfunc[9]: | <code>basic_filebuf<char, char_traits<char>>::underflow()</code> |
| vfunc[10]: | <code>basic_streambuf<char, char_traits<char>>::uflow()</code> |
| vfunc[11]: | <code>basic_filebuf<char, char_traits<char>>::pbackfail(int)</code> |
| vfunc[12]: | See The Architecture Specific Specification |
| vfunc[13]: | <code>basic_filebuf<char, char_traits<char>>::overflow(int)</code> |

The Run Time Type Information for the `std::basic_filebuf<char, std::char_traits<char>>` class is described by Table 8-229

Table 8-229 typeinfo for `basic_filebuf<char, char_traits<char>>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>basic_filebuf<char, char_traits<char>></code> |

8.1.84.2 Interfaces for Class `basic_filebuf<char, char_traits<char>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_filebuf<char, std::char_traits<char>>` specified in Table 8-230, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-230 `libstdcxx` - Class `basic_filebuf<char, char_traits<char>>` Function Interfaces

| |
|---|
| <code>basic_filebuf<char, char_traits<char>>::is_open() const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_filebuf<char, char_traits<char>>::_M_create_pback()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_filebuf<char, char_traits<char>>::_M_destroy_pback()(GLIBCXX_3.4)</code> |

| |
|---|
| [ISOCXX] |
| <code>basic_filebuf<char, char_traits<char>></code> <code>>::_M_terminate_output()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>></code> <code>>::_M_destroy_internal_buffer()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>></code> <code>>::_M_allocate_internal_buffer()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::open(char const*,</code> <code>_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::sync()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::close()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::imbue(locale const&)(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::seekpos(fpos<__mbstate_t>,</code> <code>_Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::overflow(int)(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::pbackfail(int)(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::showmanyc()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::underflow()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::basic_filebuf()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::basic_filebuf()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::~~basic_filebuf()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::~~basic_filebuf()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |
| <code>basic_filebuf<char, char_traits<char>> >::~~basic_filebuf()(GLIBCXX_3.4)</code> <code>[ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_filebuf<char, std::char_traits<char>>` specified in Table 8-231, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-231 libstdcxx - Class `basic_filebuf<char, char_traits<char>>` > Data Interfaces

| |
|--|
| <code>typeid(basic_filebuf<char, char_traits<char>>)(GLIBCXX_3.4) [CXXABI-1.86]</code> |
|--|

| |
|--|
| typeinfo name for basic_filebuf<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for basic_filebuf<char, char_traits<char> >(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.85 Class basic_filebuf<wchar_t, char_traits<wchar_t> >

8.1.85.1 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 Table 8-232

Table 8-232 Primary vtable for basic_filebuf<wchar_t, char_traits<wchar_t> >

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for basic_filebuf<wchar_t, char_traits<wchar_t> > |
| vfunc[0]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::~~basic_filebuf() |
| vfunc[1]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::~~basic_filebuf() |
| vfunc[2]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&) |
| vfunc[3]: | See The Architecture Specific Specification |
| vfunc[4]: | See The Architecture Specific Specification |
| vfunc[5]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode) |
| vfunc[6]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::sync() |
| vfunc[7]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::showmanyc() |
| vfunc[8]: | See The Architecture Specific Specification |
| vfunc[9]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::underflow() |
| vfunc[10]: | basic_streambuf<wchar_t, char_traits<wchar_t> >::uflow() |

| | |
|------------|--|
| vfunc[11]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::pbackfail(unsigned int) |
| vfunc[12]: | See The Architecture Specific Specification |
| vfunc[13]: | basic_filebuf<wchar_t, char_traits<wchar_t> >::overflow(unsigned int) |

The Run Time Type Information for the std::basic_filebuf<wchar_t, std::char_traits<wchar_t> > class is described by Table 8-233

Table 8-233 typeid for basic_filebuf<wchar_t, char_traits<wchar_t> >

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for basic_filebuf<wchar_t, char_traits<wchar_t> > |

8.1.85.2 Interfaces for Class basic_filebuf<wchar_t, char_traits<wchar_t> >

An LSB conforming implementation shall provide the generic methods for Class std::basic_filebuf<wchar_t, std::char_traits<wchar_t> > specified in Table 8-234, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-234 libstdc++ - Class basic_filebuf<wchar_t, char_traits<wchar_t> > Function Interfaces

| |
|--|
| basic_filebuf<wchar_t, char_traits<wchar_t> >::is_open() const(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_create_pback()(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_destroy_pback()(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_terminate_output()(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_destroy_internal_buffer()(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_allocate_internal_buffer()(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::open(char const*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::sync()(GLIBCXX_3.4) [ISOCXX] |
| basic_filebuf<wchar_t, char_traits<wchar_t> >::close()(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::overflow(unsigned int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::pbackfail(unsigned int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::showmanyc()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::underflow()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::basic_filebuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::basic_filebuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::~~basic_filebuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::~~basic_filebuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_filebuf<wchar_t, char_traits<wchar_t> >::~~basic_filebuf()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_istream<wchar_t, char_traits<wchar_t> >::basic_istream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::basic_ostream()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ostream<wchar_t, char_traits<wchar_t> >::basic_ostream()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_filebuf<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-235, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-235 libstdc++ - Class `basic_filebuf<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|---|
| <code>typeid for basic_filebuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_filebuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_filebuf<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.86 Class ios_base

8.1.86.1 Class data for ios_base

The virtual table for the std::ios_base class is described by Table 8-236

Table 8-236 Primary vtable for ios_base

| | |
|---------------------|------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for ios_base |
| vfunc[0]: | ios_base::~~ios_base() |
| vfunc[1]: | ios_base::~~ios_base() |

The Run Time Type Information for the std::ios_base class is described by Table 8-237

Table 8-237 typeinfo for ios_base

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__class_type_info |
| Name | typeinfo name for ios_base |

8.1.86.2 Interfaces for Class ios_base

An LSB conforming implementation shall provide the generic methods for Class std::ios_base specified in Table 8-238, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-238 libstdcxx - Class ios_base Function Interfaces

| |
|--|
| ios_base::_M_grow_words(int, bool)(GLIBCXX_3.4) [ISOCXX] |
| ios_base::sync_with_stdio(bool)(GLIBCXX_3.4) [ISOCXX] |
| ios_base::_M_call_callbacks(ios_base::event)(GLIBCXX_3.4.6) [ISOCXX] |
| ios_base::register_callback(void (*)(ios_base::event, ios_base&, int), int)(GLIBCXX_3.4) [ISOCXX] |
| ios_base::_M_dispose_callbacks()(GLIBCXX_3.4.6) [ISOCXX] |
| ios_base::Init::Init()(GLIBCXX_3.4) [ISOCXX] |
| ios_base::Init::Init()(GLIBCXX_3.4) [ISOCXX] |
| ios_base::Init::~~Init()(GLIBCXX_3.4) [ISOCXX] |
| ios_base::Init::~~Init()(GLIBCXX_3.4) [ISOCXX] |
| ios_base::imbue(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| ios_base::xalloc()(GLIBCXX_3.4) [ISOCXX] |
| ios_base::_M_init()(GLIBCXX_3.4) [ISOCXX] |
| ios_base::failure::failure(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>ios_base::failure::failure(basic_string<char, char_traits<char>, allocator<char> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::failure::~~failure()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::failure::~~failure()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::failure::~~failure()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::ios_base()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::ios_base()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::~~ios_base()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::~~ios_base()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::~~ios_base()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::ios_base` specified in Table 8-239, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-239 libstdc++ - Class `ios_base` Data Interfaces

| |
|--|
| <code>ios_base::floatfield(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::scientific(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::adjustfield(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::in(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::app(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::ate(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::beg(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::cur(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::dec(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::end(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::hex(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::oct(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::out(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::left(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::fixed(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::right(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::trunc(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::badbit(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::binary(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::eofbit(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ios_base::skipws(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| ios_base::failbit(GLIBCXX_3.4) [ISOCXX] |
| ios_base::goodbit(GLIBCXX_3.4) [ISOCXX] |
| ios_base::showpos(GLIBCXX_3.4) [ISOCXX] |
| ios_base::unitbuf(GLIBCXX_3.4) [ISOCXX] |
| ios_base::internal(GLIBCXX_3.4) [ISOCXX] |
| ios_base::showbase(GLIBCXX_3.4) [ISOCXX] |
| ios_base::basefield(GLIBCXX_3.4) [ISOCXX] |
| ios_base::boolalpha(GLIBCXX_3.4) [ISOCXX] |
| ios_base::showpoint(GLIBCXX_3.4) [ISOCXX] |
| ios_base::uppercase(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for ios_base(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for ios_base(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for ios_base(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.87 Class `basic_ios<char, char_traits<char> >`

8.1.87.1 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 by Table 8-240

Table 8-240 Primary vtable for `basic_ios<char, char_traits<char> >`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>basic_ios<char, char_traits<char> ></code> |
| vfunc[0]: | <code>basic_ios<char, char_traits<char> >::~~basic_ios()</code> |
| vfunc[1]: | <code>basic_ios<char, char_traits<char> >::~~basic_ios()</code> |

8.1.87.2 Interfaces for Class `basic_ios<char, char_traits<char> >`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ios<char, std::char_traits<char> >` specified in Table 8-241, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-241 libstdcxx - Class `basic_ios<char, char_traits<char> >` Function Interfaces

| |
|--|
| <code>basic_ios<char, char_traits<char> >::exceptions() const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::bad() const(GLIBCXX_3.4)</code> [ISOCXX] |

| |
|--|
| <code>basic_ios<char, char_traits<char> >::eof() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::tie() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::fail() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::fill() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::good() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::widen(char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::narrow(char, char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::rdstate() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::operator void*() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::operator!() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::exceptions(_Ios_Iostate)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::_M_setstate(_Ios_Iostate)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::tie(basic_ostream<char, char_traits<char> >*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::fill(char)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::init(basic_streambuf<char, char_traits<char> >*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::clear(_Ios_Iostate)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::imbue(locale const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::rdbuf(basic_streambuf<char, char_traits<char> >*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::copyfmt(basic_ios<char, char_traits<char> > const&)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::setstate(_Ios_Iostate)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::basic_ios(basic_streambuf<char, char_traits<char> >*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::basic_ios()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::basic_ios(basic_streambuf<char, char_traits<char> >*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::basic_ios()</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>basic_ios<char, char_traits<char> >::~basic_ios()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::~basic_ios()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<char, char_traits<char> >::~basic_ios()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ios<char, std::char_traits<char> >` specified in Table 8-242, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-242 libstdcxx - Class `basic_ios<char, char_traits<char> >` Data Interfaces

| |
|---|
| <code>typeinfo</code> for <code>basic_ios<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeinfo</code> name for <code>basic_ios<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>basic_ios<char, char_traits<char> ></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.88 Class `basic_ios<wchar_t, char_traits<wchar_t> >`

8.1.88.1 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 by Table 8-243

Table 8-243 Primary vtable for `basic_ios<wchar_t, char_traits<wchar_t> >`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo</code> for <code>basic_ios<wchar_t, char_traits<wchar_t> ></code> |
| <code>vfunc[0]:</code> | <code>basic_ios<wchar_t, char_traits<wchar_t> >::~basic_ios()</code> |
| <code>vfunc[1]:</code> | <code>basic_ios<wchar_t, char_traits<wchar_t> >::~basic_ios()</code> |

The Run Time Type Information for the `std::basic_ios<wchar_t, std::char_traits<wchar_t> >` class is described by Table 8-244

Table 8-244 `typeinfo` for `basic_ios<wchar_t, char_traits<wchar_t> >`

| | | |
|-------------|---|------|
| Base Vtable | <code>vtable</code> for <code>__cxxabiv1::__si_class_type_info</code> | 1026 |
| Name | <code>typeinfo</code> name for <code>basic_ios<wchar_t, char_traits<wchar_t> ></code> | |
| flags: | 8 | |
| basetype: | <code>typeinfo</code> for <code>ios_base</code> | |

8.1.88.2 Interfaces for Class `basic_ios<wchar_t, char_traits<wchar_t>>`

An LSB conforming implementation shall provide the generic methods for Class `std::basic_ios<wchar_t, std::char_traits<wchar_t>>` specified in Table 8-245, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-245 libstdcxx - Class `basic_ios<wchar_t, char_traits<wchar_t>>` Function Interfaces

| |
|--|
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::exceptions() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::bad() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::eof() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::tie() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::fail() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::fill() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::good() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::rdbuf() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::widen(char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::narrow(wchar_t, char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::rdstate() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::operator void*() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::operator!() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::exceptions(_Ios_Iostate)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::_M_setstate(_Ios_Iostate)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::tie(basic_ostream<wchar_t, char_traits<wchar_t>>*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::fill(wchar_t)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>basic_ios<wchar_t, char_traits<wchar_t>>::init(basic_streambuf<wchar_t,</code> |

| |
|---|
| <code>char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::clear(_Ios_Iostate)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::imbue(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::rdbuf(basic_streambuf<wchar_t, char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::copyfmt(basic_ios<wchar_t, char_traits<wchar_t> > const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::setstate(_Ios_Iostate)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::basic_ios(basic_streambuf<wchar_t, char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::basic_ios()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::basic_ios(basic_streambuf<wchar_t, char_traits<wchar_t> >*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::basic_ios()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::~~basic_ios()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::~~basic_ios()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>basic_ios<wchar_t, char_traits<wchar_t> >::~~basic_ios()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::basic_ios<wchar_t, std::char_traits<wchar_t> >` specified in Table 8-246, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-246 libstdcxx - Class `basic_ios<wchar_t, char_traits<wchar_t> >` Data Interfaces

| |
|---|
| <code>typeid for basic_ios<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for basic_ios<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for basic_ios<wchar_t, char_traits<wchar_t> >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.89 Class `ios_base::failure`

8.1.89.1 Class data for `ios_base::failure`

The virtual table for the `std::ios_base::failure` class is described by Table 8-247

Table 8-247 Primary vtable for `ios_base::failure`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>ios_base::failure</code> |
| <code>vfunc[0]:</code> | <code>ios_base::failure::~~failure()</code> |
| <code>vfunc[1]:</code> | <code>ios_base::failure::~~failure()</code> |
| <code>vfunc[2]:</code> | <code>ios_base::failure::what() const</code> |

The Run Time Type Information for the `std::ios_base::failure` class is described by Table 8-248

Table 8-248 typeinfo for `ios_base::failure`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>ios_base::failure</code> |

8.1.89.2 Interfaces for Class `ios_base::failure`

An LSB conforming implementation shall provide the generic methods for Class `std::ios_base::failure` specified in Table 8-249, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-249 libstdc++ - Class `ios_base::failure` Function Interfaces

| |
|---|
| <code>ios_base::failure::what() const</code> (GLIBCXX_3.4) [ISOCXX] |
|---|

An LSB conforming implementation shall provide the generic data interfaces for Class `std::ios_base::failure` specified in Table 8-250, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-250 libstdc++ - Class `ios_base::failure` Data Interfaces

| |
|--|
| typeinfo for <code>ios_base::failure</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>ios_base::failure</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>ios_base::failure</code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.90 Class `__timepunct<char>`

8.1.90.1 Class data for `__timepunct<char>`

The virtual table for the `std::__timepunct<char>` class is described by Table 8-251

Table 8-251 Primary vtable for `__timepunct<char>`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__timepunct<char></code> |
| vfunc[0]: | <code>__timepunct<char>::~~__timepunct()</code> |
| vfunc[1]: | <code>__timepunct<char>::~~__timepunct()</code> |

The Run Time Type Information for the `std::__timepunct<char>` class is described by Table 8-252

Table 8-252 typeinfo for `__timepunct<char>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__timepunct<char></code> |

8.1.90.2 Interfaces for Class `__timepunct<char>`

An LSB conforming implementation shall provide the generic methods for Class `std::__timepunct<char>` specified in Table 8-253, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-253 libstdcxx - Class `__timepunct<char>` Function Interfaces

| |
|--|
| <code>__timepunct<char>::_M_am_pm_format(char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_date_formats(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_time_formats(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_days_abbreviated(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_date_time_formats(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_months_abbreviated(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_days(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_am_pm(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_months(char const**) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_am_pm_format(wchar_t const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::_M_initialize_timepunct(__locale_struct*)</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<char>::~~__timepunct()</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>__timepunct<char>::~~__timepunct()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__timepunct<char>::~~__timepunct()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<__timepunct<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::__timepunct<char>` specified in Table 8-254, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-254 libstdc++ - Class `__timepunct<char>` Data Interfaces

| |
|--|
| guard variable for <code>__timepunct<char>::id(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| <code>__timepunct<char>::id(GLIBCXX_3.4)</code> [ISOCXX] |
| typeinfo for <code>__timepunct<char>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| typeinfo name for <code>__timepunct<char>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| vtable for <code>__timepunct<char>(GLIBCXX_3.4)</code> [CXXABI-1.86] |

8.1.91 Class `__timepunct<wchar_t>`

8.1.91.1 Class data for `__timepunct<wchar_t>`

The virtual table for the `std::__timepunct<wchar_t>` class is described by Table 8-255

Table 8-255 Primary vtable for `__timepunct<wchar_t>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__timepunct<wchar_t></code> |
| <code>vfunc[0]:</code> | <code>__timepunct<wchar_t>::~~__timepunct()</code> |
| <code>vfunc[1]:</code> | <code>__timepunct<wchar_t>::~~__timepunct()</code> |

The Run Time Type Information for the `std::__timepunct<wchar_t>` class is described by Table 8-256

Table 8-256 typeinfo for `__timepunct<wchar_t>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>__timepunct<wchar_t></code> |

8.1.91.2 Interfaces for Class `__timepunct<wchar_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::__timepunct<wchar_t>` specified in Table 8-257, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-257 libstdcxx - Class `__timepunct<wchar_t>` Function Interfaces

| |
|--|
| <code>__timepunct<wchar_t>::_M_date_formats(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_time_formats(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_days_abbreviated(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_date_time_formats(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_months_abbreviated(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_days(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_am_pm(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_months(wchar_t const**)</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>__timepunct<wchar_t>::_M_initialize_timepunct(__locale_struct*)(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__timepunct<wchar_t>::~__timepunct()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__timepunct<wchar_t>::~__timepunct()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__timepunct<wchar_t>::~__timepunct()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>bool has_facet<__timepunct<wchar_t>>(locale const&)(GLIBCXX_3.4)</code> [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::__timepunct<wchar_t>` specified in Table 8-258, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-258 libstdcxx - Class `__timepunct<wchar_t>` Data Interfaces

| |
|--|
| guard variable for <code>__timepunct<wchar_t>::id</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>__timepunct<wchar_t>::id</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>typeid</code> for <code>__timepunct<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeid</code> name for <code>__timepunct<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>__timepunct<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.92 Class `messages_base`

8.1.92.1 Class data for `messages_base`

The Run Time Type Information for the `std::messages_base` class is described by Table 8-259

Table 8-259 typeid for messages_base

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__class_type_info |
| Name | typeid name for messages_base |

8.1.92.2 Interfaces for Class messages_base

No external methods are defined for libstdc++ - Class std::messages_base in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class std::messages_base specified in Table 8-260, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-260 libstdc++ - Class messages_base Data Interfaces

| |
|--|
| typeid for messages_base(GLIBCXX_3.4) [CXXABI-1.86] |
| typeid name for messages_base(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.93 Class messages<char>

8.1.93.1 Class data for messages<char>

The virtual table for the std::messages<char> class is described by Table 8-261

Table 8-261 Primary vtable for messages<char>

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeid for messages<char> |
| vfunc[0]: | messages<char>::~~messages() |
| vfunc[1]: | messages<char>::~~messages() |
| vfunc[2]: | messages<char>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const |
| vfunc[3]: | messages<char>::do_get(int, int, int, basic_string<char, char_traits<char>, allocator<char> > const&) const |
| vfunc[4]: | messages<char>::do_close(int) const |

8.1.93.2 Interfaces for Class messages<char>

An LSB conforming implementation shall provide the generic methods for Class std::messages<char> specified in Table 8-262, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-262 libstdc++ - Class messages<char> Function Interfaces

| |
|--|
| messages<char>::_M_convert_to_char(basic_string<char, char_traits<char>, allocator<char> > const&) const(GLIBCXX_3.4) [ISOCXX] |
|--|

| |
|---|
| <code>messages<char>::_M_convert_from_char(char*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::get(int, int, int, basic_string<char, char_traits<char>, allocator<char> > const&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&, char const*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::close(int) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::do_get(int, int, int, basic_string<char, char_traits<char>, allocator<char> > const&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::do_close(int) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::~~messages()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::~~messages()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char>::~~messages()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::messages<char>` specified in Table 8-263, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-263 libstdc++ - Class `messages<char>` Data Interfaces

| |
|---|
| guard variable for <code>messages<char>::id(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| <code>messages<char>::id(GLIBCXX_3.4)</code> [ISOCXX] |
| typeinfo for <code>messages<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>messages<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>messages<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.94 Class `messages<wchar_t>`

8.1.94.1 Class data for `messages<wchar_t>`

The virtual table for the `std::messages<wchar_t>` class is described by Table 8-264

Table 8-264 Primary vtable for `messages<wchar_t>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>messages<wchar_t></code> |
| <code>vfunc[0]:</code> | <code>messages<wchar_t>::~~messages()</code> |
| <code>vfunc[1]:</code> | <code>messages<wchar_t>::~~messages()</code> |

| | |
|-----------|---|
| vfunc[2]: | messages<wchar_t>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const |
| vfunc[3]: | messages<wchar_t>::do_get(int, int, int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const |
| vfunc[4]: | messages<wchar_t>::do_close(int) const |

8.1.94.2 Interfaces for Class messages<wchar_t>

An LSB conforming implementation shall provide the generic methods for Class std::messages<wchar_t> specified in Table 8-265, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-265 libstdcxx - Class messages<wchar_t> Function Interfaces

| |
|---|
| messages<wchar_t>::_M_convert_to_char(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::_M_convert_from_char(char*) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::get(int, int, int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&, char const*) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::close(int) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::do_get(int, int, int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::do_close(int) const(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::~messages()(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::~messages()(GLIBCXX_3.4) [ISOCXX] |
| messages<wchar_t>::~messages()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class std::messages<wchar_t> specified in Table 8-266, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-266 libstdcxx - Class messages<wchar_t> Data Interfaces

| |
|---|
| guard variable for messages<wchar_t>::id(GLIBCXX_3.4) [CXXABI-1.86] |
| messages<wchar_t>::id(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for messages<wchar_t>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for messages<wchar_t>(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for messages<wchar_t>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.95 Class messages_byname<char>**8.1.95.1 Class data for messages_byname<char>**

The virtual table for the std::messages_byname<char> class is described by Table 8-267

Table 8-267 Primary vtable for messages_byname<char>

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for messages_byname<char> |
| vfunc[0]: | messages_byname<char>::~~messages_byname() |
| vfunc[1]: | messages_byname<char>::~~messages_byname() |
| vfunc[2]: | messages<char>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const |
| vfunc[3]: | messages<char>::do_get(int, int, int, basic_string<char, char_traits<char>, allocator<char> > const&) const |
| vfunc[4]: | messages<char>::do_close(int) const |

The Run Time Type Information for the std::messages_byname<char> class is described by Table 8-268

Table 8-268 typeinfo for messages_byname<char>

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for messages_byname<char> |

8.1.95.2 Interfaces for Class messages_byname<char>

An LSB conforming implementation shall provide the generic methods for Class std::messages_byname<char> specified in Table 8-269, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-269 libstdcxx - Class messages_byname<char> Function Interfaces

| |
|---|
| messages_byname<char>::~messages_byname()(GLIBCXX_3.4) [ISOCXX] |
| messages_byname<char>::~messages_byname()(GLIBCXX_3.4) [ISOCXX] |
| messages_byname<char>::~messages_byname()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class std::messages_byname<char> specified in Table 8-270, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-270 libstdcxx - Class messages_byname<char> Data Interfaces

| |
|--|
| typeinfo for messages_byname<char>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for messages_byname<char>(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for messages_byname<char>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.96 Class messages_byname<wchar_t>

8.1.96.1 Class data for messages_byname<wchar_t>

The virtual table for the std::messages_byname<wchar_t> class is described by Table 8-271

Table 8-271 Primary vtable for messages_byname<wchar_t>

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for messages_byname<wchar_t> |
| vfunc[0]: | messages_byname<wchar_t>::~mess ages_byname() |
| vfunc[1]: | messages_byname<wchar_t>::~mess ages_byname() |
| vfunc[2]: | messages<wchar_t>::do_open(basic_ string<char, char_traits<char>, allocator<char> > const&, locale const&) const |
| vfunc[3]: | messages<wchar_t>::do_get(int, int, int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const |
| vfunc[4]: | messages<wchar_t>::do_close(int) const |

The Run Time Type Information for the std::messages_byname<wchar_t> class is described by Table 8-272

Table 8-272 typeinfo for messages_byname<wchar_t>

| | |
|-------------|------------|
| Base Vtable | vtable for |
|-------------|------------|

| | |
|------|---|
| | <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>messages_byname<wchar_t></code> |

8.1.96.2 Interfaces for Class `messages_byname<wchar_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::messages_byname<wchar_t>` specified in Table 8-273, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-273 libstdcxx - Class `messages_byname<wchar_t>` Function Interfaces

| |
|---|
| <code>messages_byname<wchar_t>::~~messages_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>messages_byname<wchar_t>::~~messages_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>messages_byname<wchar_t>::~~messages_byname()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::messages_byname<wchar_t>` specified in Table 8-274, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-274 libstdcxx - Class `messages_byname<wchar_t>` Data Interfaces

| |
|---|
| typeinfo for <code>messages_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>messages_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>messages_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.97 Class `numpunct<char>`

8.1.97.1 Class data for `numpunct<char>`

The virtual table for the `std::numpunct<char>` class is described by Table 8-275

Table 8-275 Primary vtable for `numpunct<char>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>numpunct<char></code> |
| <code>vfunc[0]:</code> | <code>numpunct<char>::~~numpunct()</code> |
| <code>vfunc[1]:</code> | <code>numpunct<char>::~~numpunct()</code> |
| <code>vfunc[2]:</code> | <code>numpunct<char>::do_decimal_point()</code> const |
| <code>vfunc[3]:</code> | <code>numpunct<char>::do_thousands_sep()</code> const |
| <code>vfunc[4]:</code> | <code>numpunct<char>::do_grouping()</code> const |
| <code>vfunc[5]:</code> | <code>numpunct<char>::do_truename()</code> const |

| | |
|-----------|---|
| vfunc[6]: | numpunct<char>::do_falsename() const |
|-----------|---|

The Run Time Type Information for the `std::numpunct<char>` class is described by Table 8-276

Table 8-276 typeinfo for numpunct<char>

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for numpunct<char> |

8.1.97.2 Interfaces for Class numpunct<char>

An LSB conforming implementation shall provide the generic methods for Class `std::numpunct<char>` specified in Table 8-277, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-277 libstdcxx - Class numpunct<char> Function Interfaces

| |
|--|
| numpunct<char>::do_grouping() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::do_truename() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::do_falsename() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::do_decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::do_thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::grouping() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::truename() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::falsename() const(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::_M_initialize_numpunct(__locale_struct*)(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::~numpunct()(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::~numpunct()(GLIBCXX_3.4) [ISOCXX] |
| numpunct<char>::~numpunct()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::numpunct<char>` specified in Table 8-278, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-278 libstdcxx - Class numpunct<char> Data Interfaces

| |
|--|
| guard variable for numpunct<char>::id(GLIBCXX_3.4) [CXXABI-1.86] |
| numpunct<char>::id(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for numpunct<char>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for numpunct<char>(GLIBCXX_3.4) [CXXABI-1.86] |

| |
|--|
| vtable for <code>numpunct<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
|--|

8.1.98 Class `numpunct<wchar_t>`

8.1.98.1 Class data for `numpunct<wchar_t>`

The virtual table for the `std::numpunct<wchar_t>` class is described by Table 8-279

Table 8-279 Primary vtable for `numpunct<wchar_t>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>numpunct<wchar_t></code> |
| <code>vfunc[0]:</code> | <code>numpunct<wchar_t>::~~numpunct()</code> |
| <code>vfunc[1]:</code> | <code>numpunct<wchar_t>::~~numpunct()</code> |
| <code>vfunc[2]:</code> | <code>numpunct<wchar_t>::do_decimal_point() const</code> |
| <code>vfunc[3]:</code> | <code>numpunct<wchar_t>::do_thousands_sep() const</code> |
| <code>vfunc[4]:</code> | <code>numpunct<wchar_t>::do_grouping() const</code> |
| <code>vfunc[5]:</code> | <code>numpunct<wchar_t>::do_truename() const</code> |
| <code>vfunc[6]:</code> | <code>numpunct<wchar_t>::do_falsename() const</code> |

The Run Time Type Information for the `std::numpunct<wchar_t>` class is described by Table 8-280

Table 8-280 typeinfo for `numpunct<wchar_t>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>numpunct<wchar_t></code> |

8.1.98.2 Interfaces for Class `numpunct<wchar_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::numpunct<wchar_t>` specified in Table 8-281, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-281 `libstdcxx` - Class `numpunct<wchar_t>` Function Interfaces

| |
|--|
| <code>numpunct<wchar_t>::do_grouping() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numpunct<wchar_t>::do_truename() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numpunct<wchar_t>::do_falsename() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numpunct<wchar_t>::decimal_point() const</code> (GLIBCXX_3.4) [ISOCXX] |

| |
|--|
| <code>numpunct<wchar_t>::thousands_sep()</code> <code>const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::do_decimal_point()</code> <code>const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::do_thousands_sep()</code> <code>const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::grouping()</code> <code>const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::truename()</code> <code>const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::falsename()</code> <code>const(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::_M_initialize_numpunct(__locale_struct*)</code> <code>(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::~~numpunct()</code> <code>(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::~~numpunct()</code> <code>(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct<wchar_t>::~~numpunct()</code> <code>(GLIBCXX_3.4)</code> [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::numpunct<wchar_t>` specified in Table 8-282, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-282 libstdcxx - Class `numpunct<wchar_t>` Data Interfaces

| |
|---|
| guard variable for <code>numpunct<wchar_t>::id(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| <code>numpunct<wchar_t>::id(GLIBCXX_3.4)</code> [ISOCXX] |
| typeinfo for <code>numpunct<wchar_t></code> <code>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| typeinfo name for <code>numpunct<wchar_t></code> <code>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| vtable for <code>numpunct<wchar_t></code> <code>(GLIBCXX_3.4)</code> [CXXABI-1.86] |

8.1.99 Class `numpunct_byname<char>`

8.1.99.1 Class data for `numpunct_byname<char>`

The virtual table for the `std::numpunct_byname<char>` class is described by Table 8-283

Table 8-283 Primary vtable for `numpunct_byname<char>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>numpunct_byname<char></code> |
| <code>vfunc[0]:</code> | <code>numpunct_byname<char>::~~numpunct_byname()</code> |
| <code>vfunc[1]:</code> | <code>numpunct_byname<char>::~~numpunct_byname()</code> |
| <code>vfunc[2]:</code> | <code>numpunct<char>::do_decimal_point()</code> <code>const</code> |
| <code>vfunc[3]:</code> | <code>numpunct<char>::do_thousands_sep</code> |

| | |
|-----------|---|
| | () const |
| vfunc[4]: | numpunct<char>::do_grouping() const |
| vfunc[5]: | numpunct<char>::do_truename() const |
| vfunc[6]: | numpunct<char>::do_falsename() const |

The Run Time Type Information for the `std::numpunct_byname<char>` class is described by Table 8-284

Table 8-284 typeinfo for `numpunct_byname<char>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>numpunct_byname<char></code> |

8.1.99.2 Interfaces for Class `numpunct_byname<char>`

An LSB conforming implementation shall provide the generic methods for Class `std::numpunct_byname<char>` specified in Table 8-285, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-285 libstdcxx - Class `numpunct_byname<char>` Function Interfaces

| |
|---|
| <code>numpunct_byname<char>::~numpunct_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numpunct_byname<char>::~numpunct_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>numpunct_byname<char>::~numpunct_byname()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::numpunct_byname<char>` specified in Table 8-286, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-286 libstdcxx - Class `numpunct_byname<char>` Data Interfaces

| |
|--|
| typeinfo for <code>numpunct_byname<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>numpunct_byname<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>numpunct_byname<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.100 Class `numpunct_byname<wchar_t>`

8.1.100.1 Class data for `numpunct_byname<wchar_t>`

The virtual table for the `std::numpunct_byname<wchar_t>` class is described by Table 8-287

Table 8-287 Primary vtable for `numpunct_byname<wchar_t>`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |

| | |
|-----------|---|
| RTTI | typeinfo for numpunct_byname<wchar_t> |
| vfunc[0]: | numpunct_byname<wchar_t>::~~num punct_byname() |
| vfunc[1]: | numpunct_byname<wchar_t>::~~num punct_byname() |
| vfunc[2]: | numpunct<wchar_t>::do_decimal_p oint() const |
| vfunc[3]: | numpunct<wchar_t>::do_thousands _sep() const |
| vfunc[4]: | numpunct<wchar_t>::do_grouping() const |
| vfunc[5]: | numpunct<wchar_t>::do_truename() const |
| vfunc[6]: | numpunct<wchar_t>::do_falsename() const |

The Run Time Type Information for the `std::numpunct_byname<wchar_t>` class is described by Table 8-288

Table 8-288 typeinfo for `numpunct_byname<wchar_t>`

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for numpunct_byname<wchar_t> |

8.1.100.2 Interfaces for Class `numpunct_byname<wchar_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::numpunct_byname<wchar_t>` specified in Table 8-289, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-289 libstdc++ - Class `numpunct_byname<wchar_t>` Function Interfaces

| |
|---|
| <code>numpunct_byname<wchar_t>::~numpunct_byname()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct_byname<wchar_t>::~~numpunct_byname()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>numpunct_byname<wchar_t>::~~numpunct_byname()(GLIBCXX_3.4)</code> [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::numpunct_byname<wchar_t>` specified in Table 8-290, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-290 libstdc++ - Class `numpunct_byname<wchar_t>` Data Interfaces

| |
|--|
| typeinfo for <code>numpunct_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
|--|

| |
|--|
| typeinfo name for <code>numpunct_byname<wchar_t>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
|--|

| |
|---|
| vtable for <code>numpunct_byname<wchar_t>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
|---|

8.1.101 Class `__codecvt_abstract_base<wchar_t, char, __mbstate_t>`

8.1.101.1 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 by Table 8-291

Table 8-291 Primary vtable for `__codecvt_abstract_base<wchar_t, char, __mbstate_t>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>__codecvt_abstract_base<wchar_t, char, __mbstate_t></code> |
| <code>vfunc[0]:</code> | NULL or <code>__codecvt_abstract_base<wchar_t, char, __mbstate_t>::~~__codecvt_abstract_base()</code> |
| <code>vfunc[1]:</code> | NULL or <code>__codecvt_abstract_base<wchar_t, char, __mbstate_t>::~~__codecvt_abstract_base()</code> |
| <code>vfunc[2]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[3]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[4]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[5]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[6]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[7]:</code> | <code>__cxa_pure_virtual</code> |
| <code>vfunc[8]:</code> | <code>__cxa_pure_virtual</code> |

8.1.101.2 Interfaces for Class `__codecvt_abstract_base<wchar_t, char, __mbstate_t>`

No external methods are defined for `libstdc++` - Class `std::__codecvt_abstract_base<wchar_t, char, __mbstate_t>` in this part of the specification. See also the relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class `std::__codecvt_abstract_base<wchar_t, char, __mbstate_t>` specified in

Table 8-292, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-292 libstdcxx - Class `__codecvt_abstract_base<wchar_t, char, __mbstate_t>` Data Interfaces

| |
|--|
| typeinfo for <code>__codecvt_abstract_base<wchar_t, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>__codecvt_abstract_base<wchar_t, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>__codecvt_abstract_base<wchar_t, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.102 Class `codecvt_base`

8.1.102.1 Class data for `codecvt_base`

The Run Time Type Information for the `std::codecvt_base` class is described by Table 8-293

Table 8-293 typeinfo for `codecvt_base`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__class_type_info</code> |
| Name | typeinfo name for <code>codecvt_base</code> |

8.1.102.2 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class `std::codecvt_base` specified in Table 8-294, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-294 libstdcxx - Class `codecvt_base` Data Interfaces

| |
|---|
| typeinfo for <code>codecvt_base</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>codecvt_base</code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.103 Class `codecvt<char, char, __mbstate_t>`

8.1.103.1 Class data for `codecvt<char, char, __mbstate_t>`

The virtual table for the `std::codecvt<char, char, __mbstate_t>` class is described by Table 8-295

Table 8-295 Primary vtable for `codecvt<char, char, __mbstate_t>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>codecvt<char, char, __mbstate_t></code> |

| | |
|-----------|--|
| vfunc[0]: | codecvt<char, char, __mbstate_t>::~~codecvt() |
| vfunc[1]: | codecvt<char, char, __mbstate_t>::~~codecvt() |
| vfunc[2]: | codecvt<char, char, __mbstate_t>::do_out(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const |
| vfunc[3]: | codecvt<char, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const |
| vfunc[4]: | codecvt<char, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const |
| vfunc[5]: | codecvt<char, char, __mbstate_t>::do_encoding() const |
| vfunc[6]: | codecvt<char, char, __mbstate_t>::do_always_noconv() const |
| vfunc[7]: | See The Architecture Specific Specification |
| vfunc[8]: | codecvt<char, char, __mbstate_t>::do_max_length() const |

The Run Time Type Information for the `std::codecvt<char, char, __mbstate_t>` class is described by Table 8-296

Table 8-296 typeid for `codecvt<char, char, __mbstate_t>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeid name for <code>codecvt<char, char, __mbstate_t></code> |

8.1.103.2 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 by Table 8-297

Table 8-297 Primary vtable for `__codecvt_abstract_base<char, char, __mbstate_t>`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeid for <code>__codecvt_abstract_base<char, char, __mbstate_t></code> |

| | |
|-----------|---|
| vfunc[0]: | NULL or __codecvt_abstract_base<char, char, __mbstate_t>::~~__codecvt_abstract_b ase() |
| vfunc[1]: | NULL or __codecvt_abstract_base<char, char, __mbstate_t>::~~__codecvt_abstract_b ase() |
| vfunc[2]: | __cxa_pure_virtual |
| vfunc[3]: | __cxa_pure_virtual |
| vfunc[4]: | __cxa_pure_virtual |
| vfunc[5]: | __cxa_pure_virtual |
| vfunc[6]: | __cxa_pure_virtual |
| vfunc[7]: | __cxa_pure_virtual |
| vfunc[8]: | __cxa_pure_virtual |

8.1.103.3 Interfaces for Class `codecvt<char, char, __mbstate_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::codecvt<char, char, __mbstate_t>` specified in Table 8-298, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-298 libstdcxx - Class `codecvt<char, char, __mbstate_t>` Function Interfaces

| |
|--|
| <code>codecvt<char, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::do_encoding() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::do_max_length() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::do_always_noconv() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::do_out(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::~~codecvt()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::~~codecvt()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<char, char, __mbstate_t>::~~codecvt()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::codecvt<char, char, __mbstate_t>` specified in Table 8-299, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-299 libstdc++ - Class `codecvt<char, char, __mbstate_t>` Data Interfaces

| |
|--|
| <code>codecvt<char, char, __mbstate_t>::id(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>typeinfo</code> for <code>__codecvt_abstract_base<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeinfo</code> for <code>codecvt<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeinfo</code> name for <code>__codecvt_abstract_base<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeinfo</code> name for <code>codecvt<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>__codecvt_abstract_base<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>codecvt<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.104 Class `codecvt<wchar_t, char, __mbstate_t>`**8.1.104.1 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 Table 8-300

Table 8-300 Primary vtable for `codecvt<wchar_t, char, __mbstate_t>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo</code> for <code>codecvt<wchar_t, char, __mbstate_t></code> |
| <code>vfunc[0]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::~~codecvt()</code> |
| <code>vfunc[1]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::~~codecvt()</code> |
| <code>vfunc[2]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_out(__mbstate_t&, wchar_t const*, wchar_t const*, wchar_t const*&, char*, char*, char*&) const</code> |
| <code>vfunc[3]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code> |
| <code>vfunc[4]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, wchar_t*, wchar_t*, wchar_t*&) const</code> |
| <code>vfunc[5]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_encoding() const</code> |
| <code>vfunc[6]:</code> | <code>codecvt<wchar_t, char,</code> |

| | |
|------------------------|---|
| | <code>__mbstate_t::do_always_noconv()</code> const |
| <code>vfunc[7]:</code> | See The Architecture Specific Specification |
| <code>vfunc[8]:</code> | <code>codecvt<wchar_t, char, __mbstate_t::do_max_length()</code> const |

The Run Time Type Information for the `std::codecvt<wchar_t, char, __mbstate_t>` class is described by Table 8-301

Table 8-301 typeid for `codecvt<wchar_t, char, __mbstate_t>`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeid name for <code>codecvt<wchar_t, char, __mbstate_t></code> |

8.1.104.2 Interfaces for Class `codecvt<wchar_t, char, __mbstate_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::codecvt<wchar_t, char, __mbstate_t>` specified in Table 8-302, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-302 libstdc++ - Class `codecvt<wchar_t, char, __mbstate_t>` Function Interfaces

| |
|---|
| <code>codecvt<wchar_t, char, __mbstate_t::do_unshift(__mbstate_t&, char*, char*, char*&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::do_encoding()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::do_max_length()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::do_always_noconv()</code> const(GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::do_in(__mbstate_t&, char const*, char const*, char const*&, wchar_t*, wchar_t*, wchar_t*&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::do_out(__mbstate_t&, wchar_t const*, wchar_t const*&, wchar_t const*&, char*, char*, char*&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::~~codecvt()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::~~codecvt()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>codecvt<wchar_t, char, __mbstate_t::~~codecvt()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::codecvt<wchar_t, char, __mbstate_t>` specified in Table 8-303, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-303 libstdcxx - Class codecvt<wchar_t, char, __mbstate_t> Data Interfaces

| |
|--|
| codecvt<wchar_t, char, __mbstate_t>::id(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for codecvt<wchar_t, char, __mbstate_t>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for codecvt<wchar_t, char, __mbstate_t>(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for codecvt<wchar_t, char, __mbstate_t>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.105 Class codecvt_byname<char, char, __mbstate_t>**8.1.105.1 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 Table 8-304

Table 8-304 Primary vtable for codecvt_byname<char, char, __mbstate_t>

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for codecvt_byname<char, char, __mbstate_t> |
| vfunc[0]: | codecvt_byname<char, char, __mbstate_t>::~~codecvt_byname() |
| vfunc[1]: | codecvt_byname<char, char, __mbstate_t>::~~codecvt_byname() |
| vfunc[2]: | codecvt<char, char, __mbstate_t>::do_out(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const |
| vfunc[3]: | codecvt<char, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const |
| vfunc[4]: | codecvt<char, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const |
| vfunc[5]: | codecvt<char, char, __mbstate_t>::do_encoding() const |
| vfunc[6]: | codecvt<char, char, __mbstate_t>::do_always_noconv() const |
| vfunc[7]: | See The Architecture Specific Specification |
| vfunc[8]: | codecvt<char, char, |

| | |
|--|---|
| | <code>__mbstate_t>::do_max_length() const</code> |
|--|---|

The Run Time Type Information for the `std::codecvt_byname<char, char, __mbstate_t>` class is described by Table 8-305

Table 8-305 typeinfo for `codecvt_byname<char, char, __mbstate_t>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>codecvt_byname<char, char, __mbstate_t></code> |

8.1.105.2 Interfaces for Class `codecvt_byname<char, char, __mbstate_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::codecvt_byname<char, char, __mbstate_t>` specified in Table 8-306, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-306 libstdcxx - Class `codecvt_byname<char, char, __mbstate_t>` Function Interfaces

| |
|---|
| <code>codecvt_byname<char, char, __mbstate_t>::~codecvt_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>codecvt_byname<char, char, __mbstate_t>::~codecvt_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>codecvt_byname<char, char, __mbstate_t>::~codecvt_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::codecvt_byname<char, char, __mbstate_t>` specified in Table 8-307, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-307 libstdcxx - Class `codecvt_byname<char, char, __mbstate_t>` Data Interfaces

| |
|--|
| typeinfo for <code>codecvt_byname<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>codecvt_byname<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>codecvt_byname<char, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.106 Class `codecvt_byname<wchar_t, char, __mbstate_t>`

8.1.106.1 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 Table 8-308

Table 8-308 Primary vtable for `codecvt_byname<wchar_t, char, __mbstate_t>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>codecvt_byname<wchar_t, char, __mbstate_t></code> |
| <code>vfunc[0]:</code> | <code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()</code> |
| <code>vfunc[1]:</code> | <code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()</code> |
| <code>vfunc[2]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_out(__mbstate_t&, wchar_t const*, wchar_t const*, wchar_t const*&, char*, char*, char*&) const</code> |
| <code>vfunc[3]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code> |
| <code>vfunc[4]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, wchar_t*, wchar_t*, wchar_t*&) const</code> |
| <code>vfunc[5]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_encoding() const</code> |
| <code>vfunc[6]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_always_noconv() const</code> |
| <code>vfunc[7]:</code> | See The Architecture Specific Specification |
| <code>vfunc[8]:</code> | <code>codecvt<wchar_t, char, __mbstate_t>::do_max_length() const</code> |

The Run Time Type Information for the `std::codecvt_byname<wchar_t, char, __mbstate_t>` class is described by Table 8-309

Table 8-309 typeinfo for `codecvt_byname<wchar_t, char, __mbstate_t>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>codecvt_byname<wchar_t, char, __mbstate_t></code> |

8.1.106.2 Class data for `collate_byname<wchar_t>`

The virtual table for the `std::collate_byname<wchar_t>` class is described by Table 8-310

Table 8-310 Primary vtable for `collate_byname<wchar_t>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>collate_byname<wchar_t></code> |
| <code>vfunc[0]:</code> | <code>collate_byname<wchar_t>::~~collate_byname()</code> |
| <code>vfunc[1]:</code> | <code>collate_byname<wchar_t>::~~collate_byname()</code> |
| <code>vfunc[2]:</code> | <code>collate<wchar_t>::do_compare(wchar_t const*, wchar_t const*, wchar_t const*, wchar_t const*) const</code> |
| <code>vfunc[3]:</code> | <code>collate<wchar_t>::do_transform(wchar_t const*, wchar_t const*) const</code> |
| <code>vfunc[4]:</code> | <code>collate<wchar_t>::do_hash(wchar_t const*, wchar_t const*) const</code> |

The Run Time Type Information for the `std::collate_byname<wchar_t>` class is described by Table 8-311

Table 8-311 typeinfo for `collate_byname<wchar_t>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>collate_byname<wchar_t></code> |

8.1.106.3 Interfaces for Class `codecvt_byname<wchar_t, char, __mbstate_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::codecvt_byname<wchar_t, char, __mbstate_t>` specified in Table 8-312, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-312 `libstdcxx` - Class `codecvt_byname<wchar_t, char, __mbstate_t>` Function Interfaces

| |
|---|
| <code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>collate_byname<wchar_t>::~~collate_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>collate_byname<wchar_t>::~~collate_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>collate_byname<wchar_t>::~~collate_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::codecvt_byname<wchar_t, char, __mbstate_t>` specified in Table 8-313, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-313 libstdcxx - Class `codecvt_byname<wchar_t, char, __mbstate_t>` Data Interfaces

| |
|---|
| typeinfo for <code>codecvt_byname<wchar_t, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo for <code>collate_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>codecvt_byname<wchar_t, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>collate_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>codecvt_byname<wchar_t, char, __mbstate_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>collate_byname<wchar_t></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.107 Class `collate<char>`

8.1.107.1 Class data for `collate<char>`

The virtual table for the `std::collate<char>` class is described by Table 8-314

Table 8-314 Primary vtable for `collate<char>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>collate<char></code> |
| vfunc[0]: | <code>collate<char>::~~collate()</code> |
| vfunc[1]: | <code>collate<char>::~~collate()</code> |
| vfunc[2]: | <code>collate<char>::do_compare(char const*, char const*, char const*, char const*) const</code> |
| vfunc[3]: | <code>collate<char>::do_transform(char const*, char const*) const</code> |
| vfunc[4]: | <code>collate<char>::do_hash(char const*, char const*) const</code> |

The Run Time Type Information for the `std::collate<char>` class is described by Table 8-315

Table 8-315 typeinfo for `collate<char>`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>collate<char></code> |

8.1.107.2 Interfaces for Class `collate<char>`

An LSB conforming implementation shall provide the generic methods for Class `std::collate<char>` specified in Table 8-316, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-316 `libstdcxx` - Class `collate<char>` Function Interfaces

| |
|---|
| <code>collate<char>::_M_compare(char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::do_compare(char const*, char const*, char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::do_transform(char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::hash(char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::compare(char const*, char const*, char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::do_hash(char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::transform(char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::~~collate()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::~~collate()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>collate<char>::~~collate()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::collate<char>` specified in Table 8-317, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-317 `libstdcxx` - Class `collate<char>` Data Interfaces

| |
|---|
| guard variable for <code>collate<char>::id</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>collate<char>::id</code> (GLIBCXX_3.4) [ISOCXX] |
| typeinfo for <code>collate<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>collate<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>collate<char></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.108 Class `collate<wchar_t>`

8.1.108.1 Class data for `collate<wchar_t>`

The virtual table for the `std::collate<wchar_t>` class is described by Table 8-318

Table 8-318 Primary vtable for `collate<wchar_t>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>collate<wchar_t></code> |

| | |
|-----------|---|
| vfunc[0]: | collate<wchar_t>::~~collate() |
| vfunc[1]: | collate<wchar_t>::~~collate() |
| vfunc[2]: | collate<wchar_t>::~do_compare(wchar_t const*, wchar_t const*, wchar_t const*, wchar_t const*) const |
| vfunc[3]: | collate<wchar_t>::~do_transform(wchar_t const*, wchar_t const*) const |
| vfunc[4]: | collate<wchar_t>::~do_hash(wchar_t const*, wchar_t const*) const |

The Run Time Type Information for the `std::collate<wchar_t>` class is described by Table 8-319

Table 8-319 typeid for collate<wchar_t>

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for collate<wchar_t> |

8.1.108.2 Interfaces for Class collate<wchar_t>

An LSB conforming implementation shall provide the generic methods for Class `std::collate<wchar_t>` specified in Table 8-320, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-320 libstdc++ - Class collate<wchar_t> Function Interfaces

| |
|---|
| collate<wchar_t>::_M_compare(wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~do_compare(wchar_t const*, wchar_t const*, wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~do_transform(wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~hash(wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~compare(wchar_t const*, wchar_t const*, wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~do_hash(wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~transform(wchar_t const*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~~collate()(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~~collate()(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t>::~~collate()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::collate<wchar_t>` specified in Table 8-321, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-321 libstdcxx - Class `collate<wchar_t>` Data Interfaces

| |
|---|
| guard variable for <code>collate<wchar_t>::id(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| <code>collate<wchar_t>::id(GLIBCXX_3.4)</code> [ISOCXX] |
| typeinfo for <code>collate<wchar_t>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| typeinfo name for <code>collate<wchar_t>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| vtable for <code>collate<wchar_t>(GLIBCXX_3.4)</code> [CXXABI-1.86] |

8.1.109 Class `collate_byname<char>`

8.1.109.1 Class data for `collate_byname<char>`

The virtual table for the `std::collate_byname<char>` class is described by Table 8-322

Table 8-322 Primary vtable for `collate_byname<char>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>collate_byname<char></code> |
| vfunc[0]: | <code>collate_byname<char>::~~collate_byname()</code> |
| vfunc[1]: | <code>collate_byname<char>::~~collate_byname()</code> |
| vfunc[2]: | <code>collate<char>::do_compare(char const*, char const*, char const*, char const*) const</code> |
| vfunc[3]: | <code>collate<char>::do_transform(char const*, char const*) const</code> |
| vfunc[4]: | <code>collate<char>::do_hash(char const*, char const*) const</code> |

The Run Time Type Information for the `std::collate_byname<char>` class is described by Table 8-323

Table 8-323 typeinfo for `collate_byname<char>`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>collate_byname<char></code> |

8.1.109.2 Interfaces for Class `collate_byname<char>`

An LSB conforming implementation shall provide the generic methods for Class `std::collate_byname<char>` specified in Table 8-324, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-324 libstdcxx - Class `collate_byname<char>` Function Interfaces

| |
|--|
| <code>collate_byname<char>::~collate_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>collate_byname<char>::~collate_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>collate_byname<char>::~collate_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::collate_byname<char>` specified in Table 8-325, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-325 libstdcxx - Class `collate_byname<char>` Data Interfaces

| |
|--|
| <code>typeinfo for collate_byname<char>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for collate_byname<char>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for collate_byname<char>(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.110 Class `time_base`

8.1.110.1 Class data for `time_base`

The Run Time Type Information for the `std::time_base` class is described by Table 8-326

Table 8-326 `typeinfo` for `time_base`

| | |
|-------------|---|
| Base Vtable | <code>vtable for __cxxabiv1::__class_type_info</code> |
| Name | <code>typeinfo name for time_base</code> |

8.1.110.2 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 relevant architecture specific part of this specification.

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_base` specified in Table 8-327, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-327 libstdcxx - Class `time_base` Data Interfaces

| |
|---|
| <code>typeinfo for time_base(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for time_base(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.111 Class `time_get_byname<char, istreambuf_iterator<char, char_traits<char>>>`

8.1.111.1 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 by Table 8-328

Table 8-328 Primary vtable for `time_get_byname<char, istreambuf_iterator<char, char_traits<char>>>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo</code> for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char>>></code> |
| <code>vfunc[0]:</code> | <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::~time_get_byname()</code> |
| <code>vfunc[1]:</code> | <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::~time_get_byname()</code> |
| <code>vfunc[2]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::do_date_order() const</code> |
| <code>vfunc[3]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::do_get_time(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const</code> |
| <code>vfunc[4]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::do_get_date(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const</code> |
| <code>vfunc[5]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::do_get_weekday(istreambuf_iterator<char, char_traits<char>>,</code> |

| | |
|-----------|---|
| | istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[6]: | time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_monthname(istreambuf_it erator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[7]: | time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_year(istreambuf_iterator<c har, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const |

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 8-329

Table 8-329 typeid for `time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >`

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > ></code> |

8.1.111.2 Interfaces for Class `time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::time_get_byname<char, std::istreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-330, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-330 libstdc++ - Class `time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >` Function Interfaces

| |
|--|
| <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >::~time_get_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >::~time_get_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >::~time_get_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_get_byname<char, std::istreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-331, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-331 libstdcxx - Class `time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >` Data Interfaces

| |
|--|
| typeinfo for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > ></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.112 Class `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

8.1.112.1 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 by Table 8-332

Table 8-332 Primary vtable for `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |
| vfunc[0]: | <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~time_get_byname()</code> |
| vfunc[1]: | <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~time_get_byname()</code> |
| vfunc[2]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_date_order() const</code> |
| vfunc[3]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_time(istreambuf_iterator<wchar_t, char_traits<wchar_t> >,</code> |

| | |
|-----------|--|
| | istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[4]: | time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_date(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[5]: | time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_weekday(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[6]: | time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_monthname(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[7]: | time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_year(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |

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 8-333

Table 8-333 typeinfo for `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |

8.1.112.2 Interfaces for Class `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

An LSB conforming implementation shall provide the generic methods for Class `std::time_get_byname<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 8-334, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-334 libstdcxx - Class `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>` Function Interfaces

| |
|--|
| <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_get_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_get_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_get_byname()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_get_byname<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 8-335, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-335 libstdcxx - Class `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>` Data Interfaces

| |
|--|
| <code>typeid</code> for <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeid</code> name for <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.113 Class `time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>`

8.1.113.1 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 by Table 8-336

Table 8-336 Primary vtable for `time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>`

| | |
|-------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeid</code> for <code>time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>></code> |
| <code>vfunc[0]</code> : | <code>time_put_byname<char, ostreambuf_iterator<char,</code> |

| | |
|-----------|--|
| | char_traits<char> > >::~time_put_byname() |
| vfunc[1]: | time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >::~time_put_byname() |
| vfunc[2]: | time_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, tm const*, char, char) const |

The Run Time Type Information for the std::time_put_byname<char, std::ostreambuf_iterator<char, std::char_traits<char> > > class is described by Table 8-337

Table 8-337 typeid for time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > > |

8.1.113.2 Interfaces for Class time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >

An LSB conforming implementation shall provide the generic methods for Class std::time_put_byname<char, std::ostreambuf_iterator<char, std::char_traits<char> > > specified in Table 8-338, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-338 libstdc++ - 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()(GLIBCXX_3.4) [ISOCXX] |
| time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >::~time_put_byname()(GLIBCXX_3.4) [ISOCXX] |
| time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >::~time_put_byname()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class std::time_put_byname<char, std::ostreambuf_iterator<char, std::char_traits<char> > > specified in Table 8-339, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-339 libstdcxx - Class time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>> Data Interfaces

| |
|--|
| typeinfo for time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.114 Class time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>

8.1.114.1 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 by Table 8-340

Table 8-340 Primary vtable for time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> |
| vfunc[0]: | time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_put_byname() |
| vfunc[1]: | time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_put_byname() |
| vfunc[2]: | time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, wchar_t, tm const*, char, char) const |

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 8-341

Table 8-341 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 | typeinfo name for time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> |

8.1.114.2 Interfaces for Class time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>

An LSB conforming implementation shall provide the generic methods for Class `std::time_put_byname<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 8-342, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-342 libstdcxx - Class time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> Function Interfaces

| |
|--|
| <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_put_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_put_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_put_byname()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_put_byname<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 8-343, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-343 libstdcxx - Class time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> Data Interfaces

| |
|---|
| typeinfo for <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.115 Class time_get<char, istreambuf_iterator<char, char_traits<char>>>**8.1.115.1 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 by Table 8-344

Table 8-344 Primary vtable for `time_get<char, istreambuf_iterator<char, char_traits<char>>>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code> |
| <code>vfunc[0]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::~~time_get()</code> |
| <code>vfunc[1]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::~~time_get()</code> |
| <code>vfunc[2]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_date_order() const</code> |
| <code>vfunc[3]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get_time(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const</code> |
| <code>vfunc[4]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get_date(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const</code> |
| <code>vfunc[5]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get_weekday(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const</code> |
| <code>vfunc[6]:</code> | <code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get_monthname(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&,</code> |

| | |
|-----------|--|
| | _Ios_Iostate&, tm*) const |
| vfunc[7]: | time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_year(istreambuf_iterator<c har, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const |

8.1.115.2 Interfaces for Class `time_get<char, istreambuf_iterator<char, char_traits<char> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::time_get<char, std::istreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-345, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-345 libstdc++ - Class `time_get<char, istreambuf_iterator<char, char_traits<char> > >` Function Interfaces

| |
|--|
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::date_order()</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_date(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_time(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_year(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::get_weekday(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_date_order() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::get_monthname(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_weekday(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*)</code> <code>const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > ></code> |

| |
|--|
| <code>>::do_get_monthname(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::_M_extract_via_format(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*, char const*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::get_date(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::get_time(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::get_year(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::~time_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::~time_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::~time_get()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_get<char, std::istreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-346, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-346 libstdcxx - Class `time_get<char, istreambuf_iterator<char, char_traits<char> > >` Data Interfaces

| |
|---|
| <code>guard variable for time_get<char, istreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>typeid for time_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for time_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for time_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.116 Class `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

8.1.116.1 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 by Table 8-347

Table 8-347 Primary vtable for `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> |
| vfunc[0]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~~time_get()</code> |
| vfunc[1]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~~time_get()</code> |
| vfunc[2]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_date_order() const</code> |
| vfunc[3]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_get_time(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const</code> |
| vfunc[4]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_get_date(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const</code> |
| vfunc[5]: | <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_get_weekday(istreambuf_iterator<wchar_t, char_traits<wchar_t>>,</code> |

| | |
|-----------|---|
| | istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[6]: | time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_monthname(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |
| vfunc[7]: | time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_year(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const |

8.1.116.2 Interfaces for Class `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::time_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-348, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-348 libstdcxx - Class `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Function Interfaces

| |
|--|
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::date_order() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_date(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_time(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_year(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::get_weekday(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |

| |
|--|
| <code>>::do_date_order() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::get_monthname(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::do_get_weekday(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::do_get_monthname(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::M_extract_via_format(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*, wchar_t const*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::get_date(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::get_time(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::get_year(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::~time_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::~time_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::~time_get()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 8-349, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-349 libstdcxx - Class `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>` Data Interfaces

| |
|--|
| <code>guard variable for time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::id(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::id(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| typeinfo for time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.117 Class time_put<char, ostreambuf_iterator<char, char_traits<char> > >

8.1.117.1 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 by Table 8-350

Table 8-350 Primary vtable for time_put<char, ostreambuf_iterator<char, char_traits<char> > >

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for time_put<char, ostreambuf_iterator<char, char_traits<char> > > |
| vfunc[0]: | time_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~time_put() |
| vfunc[1]: | time_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~time_put() |
| vfunc[2]: | time_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, tm const*, char, char) const |

The Run Time Type Information for the std::time_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > > class is described by Table 8-351

Table 8-351 typeinfo for time_put<char, ostreambuf_iterator<char, char_traits<char> > >

| | | |
|-------------|--|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info | |
| Name | typeinfo name for time_put<char, ostreambuf_iterator<char, char_traits<char> > > | |

| | | |
|-----------|----------------------------|---|
| | > | |
| flags: | 8 | |
| basetype: | typeinfo for locale::facet | 2 |
| basetype: | typeinfo for time_base | 2 |

8.1.117.2 Interfaces for Class `time_put<char, ostreambuf_iterator<char, char_traits<char>>>`

An LSB conforming implementation shall provide the generic methods for Class `std::time_put<char, std::ostreambuf_iterator<char, std::char_traits<char>>>` specified in Table 8-352, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-352 libstdcxx - Class `time_put<char, ostreambuf_iterator<char, char_traits<char>>>` Function Interfaces

| |
|--|
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, tm const*, char const*, char const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, tm const*, char, char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::do_put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, tm const*, char, char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::~~time_put()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::~~time_put()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::~~time_put()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_put<char, std::ostreambuf_iterator<char, std::char_traits<char>>>` specified in Table 8-353, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-353 libstdcxx - Class `time_put<char, ostreambuf_iterator<char, char_traits<char>>>` Data Interfaces

| |
|---|
| guard variable for <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::id</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>>::id</code> (GLIBCXX_3.4) [ISOCXX] |
| typeinfo for <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> <code>></code> (GLIBCXX_3.4) [CXXABI-1.86] |

vtable for `time_put<char, ostreambuf_iterator<char, char_traits<char>>>`
 >(GLIBCXX_3.4) [CXXABI-1.86]

8.1.118 Class `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

8.1.118.1 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 by Table 8-354

Table 8-354 Primary vtable for `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> |
| <code>vfunc[0]:</code> | <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_put()</code> |
| <code>vfunc[1]:</code> | <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_put()</code> |
| <code>vfunc[2]:</code> | <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, wchar_t, tm const*, char, char) const</code> |

The Run Time Type Information for the `std::time_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` class is described by Table 8-355

Table 8-355 typeinfo for `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

| | | |
|-------------|--|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> | |
| Name | typeinfo name for <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> | |

| | | |
|-----------|----------------------------|---|
| | > | |
| flags: | 8 | |
| basetype: | typeinfo for locale::facet | 2 |
| basetype: | typeinfo for time_base | 2 |

8.1.118.2 Interfaces for Class `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

An LSB conforming implementation shall provide the generic methods for Class `std::time_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 8-356, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-356 libstdcxx - Class `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>` Function Interfaces

| |
|---|
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::put(ostreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, wchar_t, tm const*, wchar_t const*, wchar_t const*) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::put(ostreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, wchar_t, tm const*, char, char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, wchar_t, tm const*, char, char) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~~time_put()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~~time_put()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~~time_put()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::time_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 8-357, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-357 libstdcxx - Class `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>` Data Interfaces

| |
|---|
| guard variable for <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::id</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::id</code> (GLIBCXX_3.4) [ISOCXX] |
| typeinfo for <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> (GLIBCXX_3.4) [CXXABI-1.86] |

| |
|---|
| vtable for time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86] |
|---|

8.1.119 Class moneypunct<char, false>

8.1.119.1 Class data for moneypunct<char, false>

The virtual table for the std::moneypunct<char, false> class is described by Table 8-358

Table 8-358 Primary vtable for moneypunct<char, false>

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for moneypunct<char, false> |
| vfunc[0]: | moneypunct<char, false>::~~moneypunct() |
| vfunc[1]: | moneypunct<char, false>::~~moneypunct() |
| vfunc[2]: | moneypunct<char, false>::do_decimal_point() const |
| vfunc[3]: | moneypunct<char, false>::do_thousands_sep() const |
| vfunc[4]: | moneypunct<char, false>::do_grouping() const |
| vfunc[5]: | moneypunct<char, false>::do_curr_symbol() const |
| vfunc[6]: | moneypunct<char, false>::do_positive_sign() const |
| vfunc[7]: | moneypunct<char, false>::do_negative_sign() const |
| vfunc[8]: | moneypunct<char, false>::do_frac_digits() const |
| vfunc[9]: | moneypunct<char, false>::do_pos_format() const |
| vfunc[10]: | moneypunct<char, false>::do_neg_format() const |

8.1.119.2 Interfaces for Class moneypunct<char, false>

An LSB conforming implementation shall provide the generic methods for Class std::moneypunct<char, false> specified in Table 8-359, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-359 libstdc++ - Class moneypunct<char, false> Function Interfaces

| |
|---|
| moneypunct<char, false>::neg_format() const(GLIBCXX_3.4) [ISOCXX] |
|---|

| |
|--|
| money_punct<char, false>::pos_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::curr_symbol() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_grouping() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::frac_digits() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_neg_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_pos_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::negative_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::positive_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_curr_symbol() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_frac_digits() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_negative_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_positive_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::do_thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::grouping() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::_M_initialize_money_punct(__locale_struct*, char const*)(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_punct<char, false>` specified in Table 8-360, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-360 libstdc++ - Class `money_punct<char, false>` Data Interfaces

| |
|--|
| guard variable for <code>money_punct<char, false>::id</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>money_punct<char, false>::id</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_punct<char, false>::intl</code> (GLIBCXX_3.4) [ISOCXX] |
| typeinfo for <code>money_punct<char, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for <code>money_punct<char, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>money_punct<char, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.120 Class moneypunct<char, true>

8.1.120.1 Class data for moneypunct<char, true>

The virtual table for the `std::moneypunct<char, true>` class is described by Table 8-361

Table 8-361 Primary vtable for moneypunct<char, true>

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for moneypunct<char, true> |
| vfunc[0]: | moneypunct<char, true>::~~moneypunct() |
| vfunc[1]: | moneypunct<char, true>::~~moneypunct() |
| vfunc[2]: | moneypunct<char, true>::do_decimal_point() const |
| vfunc[3]: | moneypunct<char, true>::do_thousands_sep() const |
| vfunc[4]: | moneypunct<char, true>::do_grouping() const |
| vfunc[5]: | moneypunct<char, true>::do_curr_symbol() const |
| vfunc[6]: | moneypunct<char, true>::do_positive_sign() const |
| vfunc[7]: | moneypunct<char, true>::do_negative_sign() const |
| vfunc[8]: | moneypunct<char, true>::do_frac_digits() const |
| vfunc[9]: | moneypunct<char, true>::do_pos_format() const |
| vfunc[10]: | moneypunct<char, true>::do_neg_format() const |

8.1.120.2 Interfaces for Class moneypunct<char, true>

An LSB conforming implementation shall provide the generic methods for Class `std::moneypunct<char, true>` specified in Table 8-362, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-362 libstdcxx - Class moneypunct<char, true> Function Interfaces

| |
|---|
| moneypunct<char, true>::neg_format() const(GLIBCXX_3.4) [ISOCXX] |
| moneypunct<char, true>::pos_format() const(GLIBCXX_3.4) [ISOCXX] |
| moneypunct<char, true>::curr_symbol() const(GLIBCXX_3.4) [ISOCXX] |
| moneypunct<char, true>::do_grouping() const(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| money_punct<char, true>::frac_digits() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_neg_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_pos_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::negative_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::positive_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_curr_symbol() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_frac_digits() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_negative_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_positive_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::do_thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::grouping() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::_M_initialize_money_punct(__locale_struct*, char const*)(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_punct<char, true>` specified in Table 8-363, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-363 libstdc++ - Class `money_punct<char, true>` Data Interfaces

| |
|---|
| guard variable for money_punct<char, true>::id(GLIBCXX_3.4) [CXXABI-1.86] |
| money_punct<char, true>::id(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true>::intl(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for money_punct<char, true>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for money_punct<char, true>(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for money_punct<char, true>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.121 Class `money_punct<wchar_t, false>`

8.1.121.1 Class data for `money_punct<wchar_t, false>`

The virtual table for the `std::money_punct<wchar_t, false>` class is described by Table 8-364

Table 8-364 Primary vtable for `money_punct<wchar_t, false>`

| | |
|-------------|---|
| Base Offset | 0 |
|-------------|---|

| | |
|---------------------|--|
| Virtual Base Offset | 0 |
| RTTI | typeid for money_punct<wchar_t, false> |
| vfunc[0]: | money_punct<wchar_t, false>::~~money_punct() |
| vfunc[1]: | money_punct<wchar_t, false>::~~money_punct() |
| vfunc[2]: | money_punct<wchar_t, false>::~do_decimal_point() const |
| vfunc[3]: | money_punct<wchar_t, false>::~do_thousands_sep() const |
| vfunc[4]: | money_punct<wchar_t, false>::~do_grouping() const |
| vfunc[5]: | money_punct<wchar_t, false>::~do_curr_symbol() const |
| vfunc[6]: | money_punct<wchar_t, false>::~do_positive_sign() const |
| vfunc[7]: | money_punct<wchar_t, false>::~do_negative_sign() const |
| vfunc[8]: | money_punct<wchar_t, false>::~do_frac_digits() const |
| vfunc[9]: | money_punct<wchar_t, false>::~do_pos_format() const |
| vfunc[10]: | money_punct<wchar_t, false>::~do_neg_format() const |

8.1.121.2 Interfaces for Class money_punct<wchar_t, false>

An LSB conforming implementation shall provide the generic methods for Class `std::money_punct<wchar_t, false>` specified in Table 8-365, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-365 libstdc++ - Class money_punct<wchar_t, false> Function Interfaces

| |
|--|
| money_punct<wchar_t, false>::neg_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false>::pos_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false>::curr_symbol() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false>::do_grouping() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false>::frac_digits() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false>::decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false>::do_neg_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false>::do_pos_format() const(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>money_punct<wchar_t, false>::negative_sign() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::positive_sign() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::thousands_sep() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::do_curr_symbol() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::do_frac_digits() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::do_decimal_point() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::do_negative_sign() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::do_positive_sign() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::do_thousands_sep() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::grouping() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::M_initialize_money_punct(__locale_struct*, char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::~money_punct()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::~money_punct()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::~money_punct()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_punct<wchar_t, false>` specified in Table 8-366, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-366 libstdc++ - Class `money_punct<wchar_t, false>` Data Interfaces

| |
|--|
| <code>guard variable for money_punct<wchar_t, false>::id(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>money_punct<wchar_t, false>::id(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_punct<wchar_t, false>::intl(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>typeid for money_punct<wchar_t, false>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeid name for money_punct<wchar_t, false>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for money_punct<wchar_t, false>(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.122 Class `money_punct<wchar_t, true>`

8.1.122.1 Class data for `money_punct<wchar_t, true>`

The virtual table for the `std::money_punct<wchar_t, true>` class is described by Table 8-367

Table 8-367 Primary vtable for `money_punct<wchar_t, true>`

| | |
|-------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo for money_punct<wchar_t, true></code> |
| <code>vfunc[0]:</code> | <code>money_punct<wchar_t, true>::~~money_punct()</code> |
| <code>vfunc[1]:</code> | <code>money_punct<wchar_t, true>::~~money_punct()</code> |
| <code>vfunc[2]:</code> | <code>money_punct<wchar_t, true>::do_decimal_point() const</code> |
| <code>vfunc[3]:</code> | <code>money_punct<wchar_t, true>::do_thousands_sep() const</code> |
| <code>vfunc[4]:</code> | <code>money_punct<wchar_t, true>::do_grouping() const</code> |
| <code>vfunc[5]:</code> | <code>money_punct<wchar_t, true>::do_curr_symbol() const</code> |
| <code>vfunc[6]:</code> | <code>money_punct<wchar_t, true>::do_positive_sign() const</code> |
| <code>vfunc[7]:</code> | <code>money_punct<wchar_t, true>::do_negative_sign() const</code> |
| <code>vfunc[8]:</code> | <code>money_punct<wchar_t, true>::do_frac_digits() const</code> |
| <code>vfunc[9]:</code> | <code>money_punct<wchar_t, true>::do_pos_format() const</code> |
| <code>vfunc[10]:</code> | <code>money_punct<wchar_t, true>::do_neg_format() const</code> |

8.1.122.2 Interfaces for Class `money_punct<wchar_t, true>`

An LSB conforming implementation shall provide the generic methods for Class `std::money_punct<wchar_t, true>` specified in Table 8-368, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-368 `libstdc++` - Class `money_punct<wchar_t, true>` Function Interfaces

| |
|---|
| <code>money_punct<wchar_t, true>::neg_format() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_punct<wchar_t, true>::pos_format() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_punct<wchar_t, true>::curr_symbol() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_punct<wchar_t, true>::do_grouping() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_punct<wchar_t, true>::frac_digits() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_punct<wchar_t, true>::decimal_point() const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_punct<wchar_t, true>::do_neg_format() const</code> (GLIBCXX_3.4) |

| |
|---|
| [ISOCXX] |
| money_punct<wchar_t, true>::do_pos_format() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::negative_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::positive_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::do_curr_symbol() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::do_frac_digits() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::do_decimal_point() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::do_negative_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::do_positive_sign() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::do_thousands_sep() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::grouping() const(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>:: M_initialize_money_punct(__locale_struct*, char const*)(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true>::~money_punct()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_punct<wchar_t, true>` specified in Table 8-369, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-369 libstdc++ - Class `money_punct<wchar_t, true>` Data Interfaces

| |
|---|
| guard variable for <code>money_punct<wchar_t, true>::id(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| <code>money_punct<wchar_t, true>::id(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>money_punct<wchar_t, true>::intl(GLIBCXX_3.4)</code> [ISOCXX] |
| typeinfo for <code>money_punct<wchar_t, true>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| typeinfo name for <code>money_punct<wchar_t, true>(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| vtable for <code>money_punct<wchar_t, true>(GLIBCXX_3.4)</code> [CXXABI-1.86] |

8.1.123 Class `moneypunct_byname<char, false>`

8.1.123.1 Class data for `moneypunct_byname<char, false>`

The virtual table for the `std::moneypunct_byname<char, false>` class is described by Table 8-370

Table 8-370 Primary vtable for `moneypunct_byname<char, false>`

| | |
|-------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>moneypunct_byname<char, false></code> |
| <code>vfunc[0]:</code> | <code>moneypunct_byname<char, false>::~~moneypunct_byname()</code> |
| <code>vfunc[1]:</code> | <code>moneypunct_byname<char, false>::~~moneypunct_byname()</code> |
| <code>vfunc[2]:</code> | <code>moneypunct<char, false>::do_decimal_point() const</code> |
| <code>vfunc[3]:</code> | <code>moneypunct<char, false>::do_thousands_sep() const</code> |
| <code>vfunc[4]:</code> | <code>moneypunct<char, false>::do_grouping() const</code> |
| <code>vfunc[5]:</code> | <code>moneypunct<char, false>::do_curr_symbol() const</code> |
| <code>vfunc[6]:</code> | <code>moneypunct<char, false>::do_positive_sign() const</code> |
| <code>vfunc[7]:</code> | <code>moneypunct<char, false>::do_negative_sign() const</code> |
| <code>vfunc[8]:</code> | <code>moneypunct<char, false>::do_frac_digits() const</code> |
| <code>vfunc[9]:</code> | <code>moneypunct<char, false>::do_pos_format() const</code> |
| <code>vfunc[10]:</code> | <code>moneypunct<char, false>::do_neg_format() const</code> |

The Run Time Type Information for the `std::moneypunct_byname<char, false>` class is described by Table 8-371

Table 8-371 typeinfo for `moneypunct_byname<char, false>`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>moneypunct_byname<char, false></code> |

8.1.123.2 Interfaces for Class `moneypunct_byname<char, false>`

An LSB conforming implementation shall provide the generic methods for Class `std::moneypunct_byname<char, false>` specified in Table 8-372, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-372 `libstdcxx` - Class `moneypunct_byname<char, false>` Function Interfaces

| |
|---|
| <code>moneypunct_byname<char, false>::~moneypunct_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>moneypunct_byname<char, false>::~moneypunct_byname()</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>moneypunct_byname<char, false>::~moneypunct_byname()</code> (GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::moneypunct_byname<char, false>` specified in Table 8-373, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-373 `libstdcxx` - Class `moneypunct_byname<char, false>` Data Interfaces

| |
|---|
| <code>moneypunct_byname<char, false>::intl</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>typeinfo</code> for <code>moneypunct_byname<char, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>typeinfo</code> name for <code>moneypunct_byname<char, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>vtable</code> for <code>moneypunct_byname<char, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.124 Class `moneypunct_byname<char, true>`**8.1.124.1 Class data for `moneypunct_byname<char, true>`**

The virtual table for the `std::moneypunct_byname<char, true>` class is described by Table 8-374

Table 8-374 Primary vtable for `moneypunct_byname<char, true>`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo</code> for <code>moneypunct_byname<char, true></code> |
| <code>vfunc[0]:</code> | <code>moneypunct_byname<char, true>::~moneypunct_byname()</code> |
| <code>vfunc[1]:</code> | <code>moneypunct_byname<char, true>::~moneypunct_byname()</code> |
| <code>vfunc[2]:</code> | <code>moneypunct<char, true>::do_decimal_point() const</code> |
| <code>vfunc[3]:</code> | <code>moneypunct<char,</code> |

| | |
|------------|---|
| | true>::do_thousands_sep() const |
| vfunc[4]: | moneypunct<char, true>::do_grouping() const |
| vfunc[5]: | moneypunct<char, true>::do_curr_symbol() const |
| vfunc[6]: | moneypunct<char, true>::do_positive_sign() const |
| vfunc[7]: | moneypunct<char, true>::do_negative_sign() const |
| vfunc[8]: | moneypunct<char, true>::do_frac_digits() const |
| vfunc[9]: | moneypunct<char, true>::do_pos_format() const |
| vfunc[10]: | moneypunct<char, true>::do_neg_format() const |

The Run Time Type Information for the `std::moneypunct_byname<char, true>` class is described by Table 8-375

Table 8-375 typeid for moneypunct_byname<char, true>

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for moneypunct_byname<char, true> |

8.1.124.2 Interfaces for Class `moneypunct_byname<char, true>`

An LSB conforming implementation shall provide the generic methods for Class `std::moneypunct_byname<char, true>` specified in Table 8-376, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-376 libstdc++ - Class `moneypunct_byname<char, true>` Function Interfaces

| |
|---|
| <code>moneypunct_byname<char, true>::~moneypunct_byname()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>moneypunct_byname<char, true>::~moneypunct_byname()(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>moneypunct_byname<char, true>::~moneypunct_byname()(GLIBCXX_3.4)</code> [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::moneypunct_byname<char, true>` specified in Table 8-377, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-377 libstdcxx - Class money_punct_byname<char, true> Data Interfaces

| |
|---|
| money_punct_byname<char, true>::intl(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for money_punct_byname<char, true>(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for money_punct_byname<char, true>(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for money_punct_byname<char, true>(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.125 Class money_punct_byname<wchar_t, false>**8.1.125.1 Class data for money_punct_byname<wchar_t, false>**

The virtual table for the std::money_punct_byname<wchar_t, false> class is described by Table 8-378

Table 8-378 Primary vtable for money_punct_byname<wchar_t, false>

| | |
|---------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for money_punct_byname<wchar_t, false> |
| vfunc[0]: | money_punct_byname<wchar_t, false>::~~money_punct_byname() |
| vfunc[1]: | money_punct_byname<wchar_t, false>::~~money_punct_byname() |
| vfunc[2]: | money_punct<wchar_t, false>::do_decimal_point() const |
| vfunc[3]: | money_punct<wchar_t, false>::do_thousands_sep() const |
| vfunc[4]: | money_punct<wchar_t, false>::do_grouping() const |
| vfunc[5]: | money_punct<wchar_t, false>::do_curr_symbol() const |
| vfunc[6]: | money_punct<wchar_t, false>::do_positive_sign() const |
| vfunc[7]: | money_punct<wchar_t, false>::do_negative_sign() const |
| vfunc[8]: | money_punct<wchar_t, false>::do_frac_digits() const |
| vfunc[9]: | money_punct<wchar_t, false>::do_pos_format() const |
| vfunc[10]: | money_punct<wchar_t, false>::do_neg_format() const |

The Run Time Type Information for the `std::moneypunct_byname<wchar_t, false>` class is described by Table 8-379

Table 8-379 typeid for moneypunct_byname<wchar_t, false>

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeid name for <code>moneypunct_byname<wchar_t, false></code> |

8.1.125.2 Interfaces for Class `moneypunct_byname<wchar_t, false>`

An LSB conforming implementation shall provide the generic methods for Class `std::moneypunct_byname<wchar_t, false>` specified in Table 8-380, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-380 libstdc++ - Class `moneypunct_byname<wchar_t, false>` Function Interfaces

| |
|--|
| <code>moneypunct_byname<wchar_t, false>::~moneypunct_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>moneypunct_byname<wchar_t, false>::~moneypunct_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>moneypunct_byname<wchar_t, false>::~moneypunct_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::moneypunct_byname<wchar_t, false>` specified in Table 8-381, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-381 libstdc++ - Class `moneypunct_byname<wchar_t, false>` Data Interfaces

| |
|--|
| <code>moneypunct_byname<wchar_t, false>::intl(GLIBCXX_3.4) [ISOCXX]</code> |
| typeid for <code>moneypunct_byname<wchar_t, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeid name for <code>moneypunct_byname<wchar_t, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>moneypunct_byname<wchar_t, false></code> (GLIBCXX_3.4) [CXXABI-1.86] |

8.1.126 Class `moneypunct_byname<wchar_t, true>`

8.1.126.1 Class data for `moneypunct_byname<wchar_t, true>`

The virtual table for the `std::moneypunct_byname<wchar_t, true>` class is described by Table 8-382

Table 8-382 Primary vtable for `moneypunct_byname<wchar_t, true>`

| | |
|-------------|---|
| Base Offset | 0 |
|-------------|---|

| | |
|---------------------|--|
| Virtual Base Offset | 0 |
| RTTI | typeid for moneypunct_byname<wchar_t, true> |
| vfunc[0]: | moneypunct_byname<wchar_t, true>::~~moneypunct_byname() |
| vfunc[1]: | moneypunct_byname<wchar_t, true>::~~moneypunct_byname() |
| vfunc[2]: | moneypunct<wchar_t, true>::do_decimal_point() const |
| vfunc[3]: | moneypunct<wchar_t, true>::do_thousands_sep() const |
| vfunc[4]: | moneypunct<wchar_t, true>::do_grouping() const |
| vfunc[5]: | moneypunct<wchar_t, true>::do_curr_symbol() const |
| vfunc[6]: | moneypunct<wchar_t, true>::do_positive_sign() const |
| vfunc[7]: | moneypunct<wchar_t, true>::do_negative_sign() const |
| vfunc[8]: | moneypunct<wchar_t, true>::do_frac_digits() const |
| vfunc[9]: | moneypunct<wchar_t, true>::do_pos_format() const |
| vfunc[10]: | moneypunct<wchar_t, true>::do_neg_format() const |

The Run Time Type Information for the `std::moneypunct_byname<wchar_t, true>` class is described by Table 8-383

Table 8-383 typeid for moneypunct_byname<wchar_t, true>

| | |
|-------------|--|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeid name for moneypunct_byname<wchar_t, true> |

8.1.126.2 Interfaces for Class `moneypunct_byname<wchar_t, true>`

An LSB conforming implementation shall provide the generic methods for Class `std::moneypunct_byname<wchar_t, true>` specified in Table 8-384, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-384 libstdc++ - Class `moneypunct_byname<wchar_t, true>` Function Interfaces

| |
|--|
| <code>moneypunct_byname<wchar_t,</code> |
|--|

| |
|---|
| <code>true>::~moneypunct_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>moneypunct_byname<wchar_t, true>::~moneypunct_byname()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>moneypunct_byname<wchar_t, true>::~moneypunct_byname()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::moneypunct_byname<wchar_t, true>` specified in Table 8-385, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-385 libstdcxx - Class `moneypunct_byname<wchar_t, true>` Data Interfaces

| |
|--|
| <code>moneypunct_byname<wchar_t, true>::intl(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>typeinfo for moneypunct_byname<wchar_t, true>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for moneypunct_byname<wchar_t, true>(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for moneypunct_byname<wchar_t, true>(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.127 Class `money_base`

8.1.127.1 Class data for `money_base`

The Run Time Type Information for the `std::money_base` class is described by Table 8-386

Table 8-386 `typeinfo` for `money_base`

| | |
|-------------|---|
| Base Vtable | <code>vtable for __cxxabiv1::__class_type_info</code> |
| Name | <code>typeinfo name for money_base</code> |

8.1.127.2 Interfaces for Class `money_base`

An LSB conforming implementation shall provide the generic methods for Class `std::money_base` specified in Table 8-387, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-387 libstdcxx - Class `money_base` Function Interfaces

| |
|---|
| <code>money_base::_S_construct_pattern(char, char, char)(GLIBCXX_3.4) [ISOCXX]</code> |
|---|

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_base` specified in Table 8-388, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-388 libstdcxx - Class `money_base` Data Interfaces

| |
|---|
| <code>money_base::_S_default_pattern(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_base::_S_atoms(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| typeinfo for money_base(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for money_base(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.128 Class money_get<char, istreambuf_iterator<char, char_traits<char> > >

8.1.128.1 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 by Table 8-389

Table 8-389 Primary vtable for money_get<char, istreambuf_iterator<char, char_traits<char> > >

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for money_get<char, istreambuf_iterator<char, char_traits<char> > > |
| vfunc[0]: | money_get<char, istreambuf_iterator<char, char_traits<char> > >::~~money_get() |
| vfunc[1]: | money_get<char, istreambuf_iterator<char, char_traits<char> > >::~~money_get() |
| vfunc[2]: | money_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, bool, ios_base&, _Ios_Iostate&, long double&) const |
| vfunc[3]: | money_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, bool, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char> >&) const |

The Run Time Type Information for the std::money_get<char, std::istreambuf_iterator<char, std::char_traits<char> > > class is described by Table 8-390

Table 8-390 typeinfo for money_get<char, istreambuf_iterator<char, char_traits<char>>>

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for money_get<char, istreambuf_iterator<char, char_traits<char>>> |

8.1.128.2 Interfaces for Class money_get<char, istreambuf_iterator<char, char_traits<char>>>

An LSB conforming implementation shall provide the generic methods for Class std::money_get<char, std::istreambuf_iterator<char, std::char_traits<char>>> specified in Table 8-391, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-391 libstdcxx - Class money_get<char, istreambuf_iterator<char, char_traits<char>>> Function Interfaces

| |
|---|
| istreambuf_iterator<char, char_traits<char>> money_get<char, istreambuf_iterator<char, char_traits<char>>> >::_M_extract<false>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char>>&) const(GLIBCXX_3.4) [ISOCXX] |
| istreambuf_iterator<char, char_traits<char>> money_get<char, istreambuf_iterator<char, char_traits<char>>> >::_M_extract<true>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char>>&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<char, istreambuf_iterator<char, char_traits<char>>> >::get(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, bool, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char>>&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<char, istreambuf_iterator<char, char_traits<char>>> >::get(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, bool, ios_base&, _Ios_Iostate&, long double&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<char, istreambuf_iterator<char, char_traits<char>>> >::do_get(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, bool, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char>>&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<char, istreambuf_iterator<char, char_traits<char>>> >::do_get(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, bool, ios_base&, _Ios_Iostate&, long double&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<char, istreambuf_iterator<char, char_traits<char>>> |

| |
|--|
| >::~money_get()(GLIBCXX_3.4) [ISOCXX] |
| money_get<char, istreambuf_iterator<char, char_traits<char> > >::~money_get()(GLIBCXX_3.4) [ISOCXX] |
| money_get<char, istreambuf_iterator<char, char_traits<char> > >::~money_get()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_get<char, std::istreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-392, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-392 libstdcxx - Class `money_get<char, istreambuf_iterator<char, char_traits<char> > >` Data Interfaces

| |
|--|
| guard variable for <code>money_get<char, istreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| <code>money_get<char, istreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4)</code> [ISOCXX] |
| typeinfo for <code>money_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| typeinfo name for <code>money_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4)</code> [CXXABI-1.86] |
| vtable for <code>money_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4)</code> [CXXABI-1.86] |

8.1.129 Class `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

8.1.129.1 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 by Table 8-393

Table 8-393 Primary vtable for `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |
| vfunc[0]: | <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~money_get()</code> |
| vfunc[1]: | <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |

| | |
|-----------|---|
| | >::~money_get() |
| vfunc[2]: | money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, _Ios_Iostate&, long double&) const |
| vfunc[3]: | money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, _Ios_Iostate&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >&) const |

The Run Time Type Information for the `std::money_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` class is described by Table 8-394

Table 8-394 typeinfo for `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |

8.1.129.2 Interfaces for Class `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::money_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-395, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-395 libstdcxx - Class `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Function Interfaces

| |
|---|
| <code>istreambuf_iterator<wchar_t, char_traits<wchar_t> > money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_extract<false>(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char> >&) const(GLIBCXX_3.4) [ISOCXX]</code> |
|---|

| |
|---|
| istreambuf_iterator<wchar_t, char_traits<wchar_t> > money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_extract<true>(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char> >&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, _Ios_Iostate&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, _Ios_Iostate&, long double&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, _Ios_Iostate&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, _Ios_Iostate&, long double&) const(GLIBCXX_3.4) [ISOCXX] |
| money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~money_get()(GLIBCXX_3.4) [ISOCXX] |
| money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~money_get()(GLIBCXX_3.4) [ISOCXX] |
| money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~money_get()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-396, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-396 libstdc++ - Class `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Data Interfaces

| |
|--|
| guard variable for <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id</code> (GLIBCXX_3.4) [CXXABI-1.86] |
| <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id</code> (GLIBCXX_3.4) [ISOCXX] |
| typeid for <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| typeid name for <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> (GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |

| |
|--|
| char_traits<wchar_t> > > (GLIBCXX_3.4) [CXXABI-1.86] |
|--|

8.1.130 Class money_put<char, ostreambuf_iterator<char, char_traits<char> > >

8.1.130.1 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 by Table 8-397

Table 8-397 Primary vtable for money_put<char, ostreambuf_iterator<char, char_traits<char> > >

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for money_put<char, ostreambuf_iterator<char, char_traits<char> > > |
| vfunc[0]: | money_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~money_put() |
| vfunc[1]: | money_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~money_put() |
| vfunc[2]: | money_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, bool, ios_base&, char, long double) const |
| vfunc[3]: | money_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, bool, ios_base&, char, basic_string<char, char_traits<char>, allocator<char> > const&) const |

The Run Time Type Information for the std::money_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > > class is described by Table 8-398

Table 8-398 typeinfo for money_put<char, ostreambuf_iterator<char, char_traits<char> > >

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__si_class_type_info |
| Name | typeinfo name for money_put<char, ostreambuf_iterator<char, |

| | |
|--|-----------------------|
| | char_traits<char> > > |
|--|-----------------------|

8.1.130.2 Interfaces for Class money_put<char, ostreambuf_iterator<char, char_traits<char> > >

An LSB conforming implementation shall provide the generic methods for Class `std::money_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-399, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-399 libstdcxx - Class money_put<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces

| |
|---|
| money_put<char, ostreambuf_iterator<char, char_traits<char> > >::put(ostreambuf_iterator<char, char_traits<char> >, bool, ios_base&, char, basic_string<char, char_traits<char>, allocator<char> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| money_put<char, ostreambuf_iterator<char, char_traits<char> > >::put(ostreambuf_iterator<char, char_traits<char> >, bool, ios_base&, char, long double) const(GLIBCXX_3.4) [ISOCXX] |
| money_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, bool, ios_base&, char, basic_string<char, char_traits<char>, allocator<char> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| money_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, bool, ios_base&, char, long double) const(GLIBCXX_3.4) [ISOCXX] |
| ostreambuf_iterator<char, char_traits<char> > money_put<char, ostreambuf_iterator<char, char_traits<char> > >::_M_insert<false>(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, basic_string<char, char_traits<char>, allocator<char> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| ostreambuf_iterator<char, char_traits<char> > money_put<char, ostreambuf_iterator<char, char_traits<char> > >::_M_insert<true>(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, basic_string<char, char_traits<char>, allocator<char> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| money_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~money_put()(GLIBCXX_3.4) [ISOCXX] |
| money_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~money_put()(GLIBCXX_3.4) [ISOCXX] |
| money_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~money_put()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-400, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-400 libstdcxx - Class `money_put<char, ostreambuf_iterator<char, char_traits<char>>>` Data Interfaces

| |
|---|
| guard variable for <code>money_put<char, ostreambuf_iterator<char, char_traits<char>>></code> [GLIBCXX_3.4] [CXXABI-1.86] |
| <code>money_put<char, ostreambuf_iterator<char, char_traits<char>>></code> [GLIBCXX_3.4] [ISOCXX] |
| typeinfo for <code>money_put<char, ostreambuf_iterator<char, char_traits<char>>></code> [GLIBCXX_3.4] [CXXABI-1.86] |
| typeinfo name for <code>money_put<char, ostreambuf_iterator<char, char_traits<char>>></code> [GLIBCXX_3.4] [CXXABI-1.86] |
| vtable for <code>money_put<char, ostreambuf_iterator<char, char_traits<char>>></code> [GLIBCXX_3.4] [CXXABI-1.86] |

8.1.131 Class `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

8.1.131.1 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 by Table 8-401

Table 8-401 Primary vtable for `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> |
| <code>vfunc[0]:</code> | <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::~~money_put()</code> |
| <code>vfunc[1]:</code> | <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::~~money_put()</code> |
| <code>vfunc[2]:</code> | <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t>>, bool, ios_base&, wchar_t, long double) const</code> |
| <code>vfunc[3]:</code> | <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> |

| | |
|--|---|
| | <code>>::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, wchar_t, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const</code> |
|--|---|

The Run Time Type Information for the `std::money_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` class is described by Table 8-402

Table 8-402 typeid for `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeid name for <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |

8.1.131.2 Interfaces for Class `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::money_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-403, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-403 libstdc++ - Class `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Function Interfaces

| |
|---|
| <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, wchar_t, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, wchar_t, long double) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, wchar_t, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, bool, ios_base&, wchar_t, long double) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_insert<false>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > money_put<wchar_t,</code> |

| |
|---|
| ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::_M_insert<true>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const(GLIBCXX_3.4) [ISOCXX] |
| money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~money_put()(GLIBCXX_3.4) [ISOCXX] |
| money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~money_put()(GLIBCXX_3.4) [ISOCXX] |
| money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~money_put()(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::money_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-404, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-404 libstdcxx - Class `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Data Interfaces

| |
|---|
| guard variable for <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id(GLIBCXX_3.4) [ISOCXX]</code> |
| typeinfo for <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| typeinfo name for <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| vtable for <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.132 Class locale

8.1.132.1 Interfaces for Class locale

An LSB conforming implementation shall provide the generic methods for Class `std::locale` specified in Table 8-405, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-405 libstdcxx - Class locale Function Interfaces

| |
|--|
| <code>locale::id::_M_id() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::name() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::operator==(locale const&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::_M_coalesce(locale const&, locale const&, int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::_S_normalize_category(int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::_Impl::_M_install_facet(locale::id const*, locale::facet const*)(GLIBCXX_3.4) [LSB]</code> |

| |
|--|
| <code>locale::_Impl::_M_replace_facet(locale::_Impl const*, locale::id const*)(GLIBCXX_3.4) [LSB]</code> |
| <code>locale::_Impl::~_Impl()(GLIBCXX_3.4) [LSB]</code> |
| <code>locale::_Impl::~_Impl()(GLIBCXX_3.4) [LSB]</code> |
| <code>locale::global(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::classic()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(locale::_Impl*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(locale const&, locale const&, int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(char const*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(locale::_Impl*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(locale const&, char const*, int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale(locale const&, locale const&, int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::locale()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::~~locale()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::~~locale()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::operator=(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::locale` specified in Table 8-406, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-406 libstdc++ - Class `locale` Data Interfaces

| |
|---|
| <code>locale::all(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::none(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::time(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::ctype(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::collate(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::numeric(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::messages(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>locale::monetary(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.133 Class `locale::facet`

8.1.133.1 Class data for `locale::facet`

The virtual table for the `std::locale::facet` class is described by Table 8-407

Table 8-407 Primary vtable for locale::facet

| | |
|---------------------|----------------------------|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for locale::facet |
| vfunc[0]: | locale::facet::~~facet() |
| vfunc[1]: | locale::facet::~~facet() |

The Run Time Type Information for the std::locale::facet class is described by Table 8-408

Table 8-408 typeinfo for locale::facet

| | |
|-------------|---|
| Base Vtable | vtable for __cxxabiv1::__class_type_info |
| Name | typeinfo name for locale::facet |

8.1.133.2 Interfaces for Class locale::facet

An LSB conforming implementation shall provide the generic methods for Class std::locale::facet specified in Table 8-409, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-409 libstdcxx - Class locale::facet Function Interfaces

| |
|--|
| locale::facet::_S_get_c_name()(GLIBCXX_3.4.6) [ISOCXX] |
| locale::facet::_S_get_c_locale()(GLIBCXX_3.4) [ISOCXX] |
| locale::facet::_S_clone_c_locale(__locale_struct*)&)(GLIBCXX_3.4) [ISOCXX] |
| locale::facet::_S_create_c_locale(__locale_struct*&, char const*, __locale_struct*)(GLIBCXX_3.4) [ISOCXX] |
| locale::facet::_S_destroy_c_locale(__locale_struct*)&)(GLIBCXX_3.4) [ISOCXX] |
| locale::facet::~~facet()(GLIBCXX_3.4) [ISOCXX] |
| locale::facet::~~facet()(GLIBCXX_3.4) [ISOCXX] |
| locale::facet::~~facet()(GLIBCXX_3.4) [ISOCXX] |
| locale::locale(locale const&, char const*, int)(GLIBCXX_3.4) [ISOCXX] |

An LSB conforming implementation shall provide the generic data interfaces for Class std::locale::facet specified in Table 8-410, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-410 libstdcxx - Class locale::facet Data Interfaces

| |
|--|
| __timepunct_cache<char>::_S_timezones(GLIBCXX_3.4) [ISOCXX] |
| __timepunct_cache<wchar_t>::_S_timezones(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for locale::facet(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for locale::facet(GLIBCXX_3.4) [CXXABI-1.86] |

| |
|---|
| vtable for locale::facet(GLIBCXX_3.4) [CXXABI-1.86] |
|---|

8.1.134 facet functions

8.1.134.1 Interfaces for facet functions

An LSB conforming implementation shall provide the generic methods for facet functions specified in Table 8-411, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-411 libstdcxx - facet functions Function Interfaces

| |
|--|
| <code>void __convert_to_v<double>(char const*, double&, _Ios_Iostate&, __locale_struct* const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>void __convert_to_v<long double>(char const*, long double&, _Ios_Iostate&, __locale_struct* const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>void __convert_to_v<float>(char const*, float&, _Ios_Iostate&, __locale_struct* const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<moneypunct<char, false>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<moneypunct<wchar_t, false>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<ctype<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<codecvt<char, char, __mbstate_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<codecvt<wchar_t, char, __mbstate_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<collate<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<collate<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<num_get<char, istreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<num_put<char, ostreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<messages<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<messages<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<numput<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<numput<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>bool has_facet<time_get<char, istreambuf_iterator<char, char_traits<char>>>></code> |

| |
|--|
| >>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| bool has_facet<time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| bool has_facet<time_put<char, ostreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| bool has_facet<time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| bool has_facet<money_get<char, istreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| bool has_facet<money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| bool has_facet<money_put<char, ostreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| bool has_facet<money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, false> const& use_facet<money_punct<char, false>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| money_punct<char, true> const& use_facet<money_punct<char, true>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, false> const& use_facet<money_punct<wchar_t, false>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| money_punct<wchar_t, true> const& use_facet<money_punct<wchar_t, true>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| __time_punct<char> const& use_facet<__time_punct<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| __time_punct<wchar_t> const& use_facet<__time_punct<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| ctype<char> const& use_facet<ctype<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| ctype<wchar_t> const& use_facet<ctype<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| codecvt<char, char, __mbstate_t> const& use_facet<codecvt<char, char, __mbstate_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| codecvt<wchar_t, char, __mbstate_t> const& use_facet<codecvt<wchar_t, char, __mbstate_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| collate<char> const& use_facet<collate<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| collate<wchar_t> const& use_facet<collate<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |
| num_get<char, istreambuf_iterator<char, char_traits<char>>>> const& use_facet<num_get<char, istreambuf_iterator<char, char_traits<char>>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX] |

| |
|---|
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> const& use_facet<num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char>>> const& use_facet<num_put<char, ostreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> const& use_facet<num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<char> const& use_facet<messages<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>messages<wchar_t> const& use_facet<messages<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numpunct<char> const& use_facet<numpunct<char>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>numpunct<wchar_t> const& use_facet<numpunct<wchar_t>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<char, istreambuf_iterator<char, char_traits<char>>> const& use_facet<time_get<char, istreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> const& use_facet<time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>> const& use_facet<time_put<char, ostreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> const& use_facet<time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_get<char, istreambuf_iterator<char, char_traits<char>>> const& use_facet<money_get<char, istreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> const& use_facet<money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_put<char, ostreambuf_iterator<char, char_traits<char>>> const& use_facet<money_put<char, ostreambuf_iterator<char, char_traits<char>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> const& use_facet<money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>>(locale const&)(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.135 Class `__num_base`

8.1.135.1 Class data for `__num_base`

8.1.135.2 Interfaces for Class `__num_base`

An LSB conforming implementation shall provide the generic methods for Class `std::__num_base` specified in Table 8-412, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-412 libstdcxx - Class `__num_base` Function Interfaces

| |
|---|
| <code>__num_base::_S_format_float(ios_base const&, char*, char)(GLIBCXX_3.4)</code> [ISOCXX] |
|---|

An LSB conforming implementation shall provide the generic data interfaces for Class `std::__num_base` specified in Table 8-413, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-413 libstdcxx - Class `__num_base` Data Interfaces

| |
|---|
| <code>__num_base::_S_atoms_in(GLIBCXX_3.4)</code> [ISOCXX] |
| <code>__num_base::_S_atoms_out(GLIBCXX_3.4)</code> [ISOCXX] |

8.1.136 Class `num_get<char, istreambuf_iterator<char, char_traits<char>>>`

8.1.136.1 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 by Table 8-414

Table 8-414 Primary vtable for `num_get<char, istreambuf_iterator<char, char_traits<char>>>`

| | |
|------------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for <code>num_get<char, istreambuf_iterator<char, char_traits<char>>></code> |
| <code>vfunc[0]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::~~num_get()</code> |
| <code>vfunc[1]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::~num_get()</code> |
| <code>vfunc[2]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char,</code> |

| | |
|------------------------|---|
| | <code>char_traits<char> >, ios_base&, _Ios_Iostate&, bool&) const</code> |
| <code>vfunc[3]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, long&) const</code> |
| <code>vfunc[4]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned short&) const</code> |
| <code>vfunc[5]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned int&) const</code> |
| <code>vfunc[6]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned long&) const</code> |
| <code>vfunc[7]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, long long&) const</code> |
| <code>vfunc[8]:</code> | <code>num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned long long&) const</code> |

| | |
|------------|--|
| | const |
| vfunc[9]: | num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, float&) const |
| vfunc[10]: | num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, double&) const |
| vfunc[11]: | num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, long double&) const |
| vfunc[12]: | num_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, void*&) const |

The Run Time Type Information for the `std::num_get<char, std::istreambuf_iterator<char, std::char_traits<char> > >` class is described by Table 8-415

Table 8-415 `typeinfo` for `num_get<char, istreambuf_iterator<char, char_traits<char> > >`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | <code>typeinfo</code> name for <code>num_get<char, istreambuf_iterator<char, char_traits<char> > ></code> |
| basetype: | <code>typeinfo</code> for <code>locale::facet</code> |

8.1.136.2 Interfaces for Class `num_get<char, istreambuf_iterator<char, char_traits<char>>>`

An LSB conforming implementation shall provide the generic methods for Class `std::num_get<char, std::istreambuf_iterator<char, std::char_traits<char>>>` specified in Table 8-416, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-416 `libstdc++` - Class `num_get<char, istreambuf_iterator<char, char_traits<char>>>` Function Interfaces

| |
|---|
| <code>istreambuf_iterator<char, char_traits<char>>> num_get<char, istreambuf_iterator<char, char_traits<char>>>::M_extract_int<unsigned int>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned int&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>istreambuf_iterator<char, char_traits<char>>> num_get<char, istreambuf_iterator<char, char_traits<char>>>::M_extract_int<long>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>istreambuf_iterator<char, char_traits<char>>> num_get<char, istreambuf_iterator<char, char_traits<char>>>::M_extract_int<unsigned long>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>istreambuf_iterator<char, char_traits<char>>> num_get<char, istreambuf_iterator<char, char_traits<char>>>::M_extract_int<unsigned short>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned short&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>istreambuf_iterator<char, char_traits<char>>> num_get<char, istreambuf_iterator<char, char_traits<char>>>::M_extract_int<long long>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>istreambuf_iterator<char, char_traits<char>>> num_get<char, istreambuf_iterator<char, char_traits<char>>>::M_extract_int<unsigned long long>(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::M_extract_float(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char>>&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, void*&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>></code> |

| |
|--|
| <code>>::get(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, bool&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, double&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, long double&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, float&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned int&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned short&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, unsigned long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, void*&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get(istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, bool&) const(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, double&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, long double&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, float&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned int&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned short&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, unsigned long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::~~num_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::~~num_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<char, istreambuf_iterator<char, char_traits<char> >>::~~num_get()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::num_get<char, std::istreambuf_iterator<char, std::char_traits<char> >>` specified in Table 8-417, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-417 libstdcxx - Class num_get<char, istreambuf_iterator<char, char_traits<char> > > Data Interfaces

| |
|---|
| guard variable for num_get<char, istreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4) [CXXABI-1.86] |
| num_get<char, istreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4) [ISOCXX] |
| typeinfo for num_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86] |
| typeinfo name for num_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86] |
| vtable for num_get<char, istreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86] |

8.1.137 Class num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >

8.1.137.1 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 by Table 8-418

Table 8-418 Primary vtable for num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >

| | |
|---------------------|---|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | typeinfo for num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > |
| vfunc[0]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~num_get() |
| vfunc[1]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~num_get() |
| vfunc[2]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, bool&) const |
| vfunc[3]: | num_get<wchar_t, istreambuf_iterator<wchar_t, |

| | |
|-----------|---|
| | char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, long&) const |
| vfunc[4]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned short&) const |
| vfunc[5]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned int&) const |
| vfunc[6]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned long&) const |
| vfunc[7]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, long long&) const |
| vfunc[8]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned long long&) const |
| vfunc[9]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > |

| | |
|------------|--|
| | >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, float&) const |
| vfunc[10]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, double&) const |
| vfunc[11]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, long double&) const |
| vfunc[12]: | num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, void*&) const |

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 Table 8-419

Table 8-419 typeinfo for `num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |
| basetype: | typeinfo for <code>locale::facet</code> |

8.1.137.2 Interfaces for Class `num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::num_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-420, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-420 libstdcxx - Class num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> Function Interfaces

| |
|---|
| istreambuf_iterator<wchar_t, char_traits<wchar_t>> num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_extract_int<unsigned int>(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, unsigned int&) const(GLIBCXX_3.4) [ISOCXX] |
| istreambuf_iterator<wchar_t, char_traits<wchar_t>> num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_extract_int<long>(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, long&) const(GLIBCXX_3.4) [ISOCXX] |
| istreambuf_iterator<wchar_t, char_traits<wchar_t>> num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_extract_int<unsigned long>(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, unsigned long&) const(GLIBCXX_3.4) [ISOCXX] |
| istreambuf_iterator<wchar_t, char_traits<wchar_t>> num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_extract_int<unsigned short>(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, unsigned short&) const(GLIBCXX_3.4) [ISOCXX] |
| istreambuf_iterator<wchar_t, char_traits<wchar_t>> num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::_M_extract_int<long long>(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, long long&) const(GLIBCXX_3.4) [ISOCXX] |
| istreambuf_iterator<wchar_t, char_traits<wchar_t>> num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_extract_int<unsigned long long>(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, unsigned long long&) const(GLIBCXX_3.4) [ISOCXX] |
| num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_extract_float(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char>>&) const(GLIBCXX_3.4) [ISOCXX] |
| num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, void*&) const(GLIBCXX_3.4) [ISOCXX] |
| num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, bool&) const(GLIBCXX_3.4) [ISOCXX] |
| num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, |

| |
|--|
| <code>istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, double&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, long double&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, float&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, unsigned int&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, long&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, unsigned long&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, unsigned short&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, long long&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, unsigned long long&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, void*&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, bool&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t>, ios_base&, _Ios_Iostate&, double&) const</code> (GLIBCXX_3.4) [ISOCXX] |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>></code> |

| |
|--|
| <code>>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, long double&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, float&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned int&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned short&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::do_get(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, unsigned long long&) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::~~num_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::~~num_get()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >>::~~num_get()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::num_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-421, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-421 libstdc++ - Class `num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Data Interfaces

| |
|---|
| guard variable for <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id(GLIBCXX_3.4) [CXXABI-1.86]</code> |
|---|

| |
|--|
| <code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>typeinfo for num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.138 Class `num_put<char, ostreambuf_iterator<char, char_traits<char> > >`

8.1.138.1 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 by Table 8-422

Table 8-422 Primary vtable for `num_put<char, ostreambuf_iterator<char, char_traits<char> > >`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo for num_put<char, ostreambuf_iterator<char, char_traits<char> > ></code> |
| <code>vfunc[0]:</code> | <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~num_put()</code> |
| <code>vfunc[1]:</code> | <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~num_put()</code> |
| <code>vfunc[2]:</code> | <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, bool) const</code> |
| <code>vfunc[3]:</code> | <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, long) const</code> |
| <code>vfunc[4]:</code> | <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char,</code> |

| | |
|-----------|--|
| | unsigned long) const |
| vfunc[5]: | num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, long long) const |
| vfunc[6]: | num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, unsigned long long) const |
| vfunc[7]: | num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, double) const |
| vfunc[8]: | num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, long double) const |
| vfunc[9]: | num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, void const*) const |

The Run Time Type Information for the `std::num_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >` class is described by Table 8-423

Table 8-423 typeinfo for `num_put<char, ostreambuf_iterator<char, char_traits<char> > >`

| | |
|-------------|--|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeinfo name for <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > ></code> |
| basetype: | typeinfo for <code>locale::facet</code> |

8.1.138.2 Interfaces for Class `num_put<char, ostreambuf_iterator<char, char_traits<char> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::num_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >`

specified in Table 8-424, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-424 libstdcxx - Class `num_put<char, ostreambuf_iterator<char, char_traits<char>>>` Function Interfaces

| |
|---|
| <code>ostreambuf_iterator<char, char_traits<char>> num_put<char, ostreambuf_iterator<char, char_traits<char>>> >::_M_insert_int<long>(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<char, char_traits<char>> num_put<char, ostreambuf_iterator<char, char_traits<char>>>::_M_insert_int<unsigned long>(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, unsigned long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<char, char_traits<char>> num_put<char, ostreambuf_iterator<char, char_traits<char>>>::_M_insert_int<long long>(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<char, char_traits<char>> num_put<char, ostreambuf_iterator<char, char_traits<char>>>::_M_insert_int<unsigned long long>(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, unsigned long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<char, char_traits<char>> num_put<char, ostreambuf_iterator<char, char_traits<char>>>::_M_insert_float<double>(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, char, double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<char, char_traits<char>> num_put<char, ostreambuf_iterator<char, char_traits<char>>>::_M_insert_float<long double>(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, char, long double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char>>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, void const*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char>>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, bool) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char>>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char>>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, long double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char>>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char>>>::put(ostreambuf_iterator<char, char_traits<char>>, ios_base&, char, unsigned long) const(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|--|
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, unsigned long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, void const*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, bool) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, long double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, unsigned long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::do_put(ostreambuf_iterator<char, char_traits<char> >, ios_base&, char, unsigned long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~num_put()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~num_put()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::~~num_put()(GLIBCXX_3.4) [ISOCXX]</code> |

An LSB conforming implementation shall provide the generic data interfaces for Class `std::num_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >` specified in Table 8-425, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-425 libstdcxx - Class `num_put<char, ostreambuf_iterator<char, char_traits<char> > >` Data Interfaces

| |
|--|
| <code>guard variable for num_put<char, ostreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4) [CXXABI-1.86]</code> |
|--|

| |
|---|
| <code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::id(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>typeinfo for num_put<char, ostreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>typeinfo name for num_put<char, ostreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>vtable for num_put<char, ostreambuf_iterator<char, char_traits<char> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.139 Class `num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

8.1.139.1 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 by Table 8-426

Table 8-426 Primary vtable for `num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|------------------------|--|
| Base Offset | 0 |
| Virtual Base Offset | 0 |
| RTTI | <code>typeinfo for num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code> |
| <code>vfunc[0]:</code> | <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~num_put()</code> |
| <code>vfunc[1]:</code> | <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~num_put()</code> |
| <code>vfunc[2]:</code> | <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, bool) const</code> |
| <code>vfunc[3]:</code> | <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, long) const</code> |
| <code>vfunc[4]:</code> | <code>num_put<wchar_t, ostreambuf_iterator<wchar_t,</code> |

| | |
|-----------|---|
| | char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, unsigned long) const |
| vfunc[5]: | num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, long long) const |
| vfunc[6]: | num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, unsigned long long) const |
| vfunc[7]: | num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, double) const |
| vfunc[8]: | num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, long double) const |
| vfunc[9]: | num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, void const*) const |

The Run Time Type Information for the `std::num_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` class is described by Table 8-427

Table 8-427 typeid for `num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

| | |
|-------------|---|
| Base Vtable | vtable for <code>__cxxabiv1::__si_class_type_info</code> |
| Name | typeid name for <code>num_put<wchar_t, ostreambuf_iterator<wchar_t,</code> |

| | |
|-----------|---|
| | <code>char_traits<wchar_t> > ></code> |
| basetype: | <code>typeinfo for locale::facet</code> |

8.1.139.2 Interfaces for Class `num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the generic methods for Class `std::num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >` specified in Table 8-428, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-428 libstdcxx - Class `num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Function Interfaces

| |
|--|
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_insert_int<long>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_insert_int<unsigned long>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, unsigned long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_insert_int<long long>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_insert_int<unsigned long long>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, unsigned long long) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_insert_float<double>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, char, double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>ostreambuf_iterator<wchar_t, char_traits<wchar_t> > num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_insert_float<long double>(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, char, long double) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, void const*) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, wchar_t, bool) const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::put(ostreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&,</code> |

[illegible]

| |
|---|
| <code>>::~num_put()(GLIBCXX_3.4) [ISOCXX]</code> |
|---|

An LSB conforming implementation shall provide the generic data interfaces for Class `std::num_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 8-429, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-429 libstdcxx - Class `num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Data Interfaces

| |
|---|
| guard variable for <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::id(GLIBCXX_3.4) [ISOCXX]</code> |
| typeinfo for <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| typeinfo name for <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |
| vtable for <code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >(GLIBCXX_3.4) [CXXABI-1.86]</code> |

8.1.140 Class `__basic_file<char>`

8.1.140.1 Class data for `__basic_file<char>`

8.1.140.2 Interfaces for Class `__basic_file<char>`

An LSB conforming implementation shall provide the generic methods for Class `std::__basic_file<char>` specified in Table 8-430, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-430 libstdcxx - Class `__basic_file<char>` Function Interfaces

| |
|--|
| <code>__basic_file<char>::is_open() const(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::fd()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::file()(GLIBCXX_3.4.1) [ISOCXX]</code> |
| <code>__basic_file<char>::open(char const*, _Ios_Openmode, int)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::sync()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::close()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::sys_open(_IO_FILE*, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::sys_open(int, _Ios_Openmode)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::showmanyc()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::__basic_file(pthread_mutex_t*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::__basic_file(pthread_mutex_t*)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>__basic_file<char>::~~__basic_file()(GLIBCXX_3.4) [ISOCXX]</code> |

| |
|---|
| <code>__basic_file<char>::~~__basic_file()(GLIBCXX_3.4) [ISOCXX]</code> |
|---|

8.1.141 Class `_List_node_base`

8.1.141.1 Interfaces for Class `_List_node_base`

An LSB conforming implementation shall provide the generic methods for Class `std::_List_node_base` specified in Table 8-431, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-431 libstdcxx - Class `_List_node_base` Function Interfaces

| |
|---|
| <code>_List_node_base::hook(_List_node_base*)(GLIBCXX_3.4) [LSB]</code> |
| <code>_List_node_base::swap(_List_node_base&, _List_node_base&)(GLIBCXX_3.4) [LSB]</code> |
| <code>_List_node_base::unhook()(GLIBCXX_3.4) [LSB]</code> |
| <code>_List_node_base::reverse()(GLIBCXX_3.4) [LSB]</code> |
| <code>_List_node_base::transfer(_List_node_base*, _List_node_base*)(GLIBCXX_3.4) [LSB]</code> |

8.1.142 Class `allocator<char>`

8.1.142.1 Class data for `allocator<char>`

8.1.142.2 Interfaces for Class `allocator<char>`

An LSB conforming implementation shall provide the generic methods for Class `std::allocator<char>` specified in Table 8-432, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-432 libstdcxx - Class `allocator<char>` Function Interfaces

| |
|---|
| <code>allocator<char>::allocator(allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>allocator<char>::allocator()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>allocator<char>::allocator(allocator<char> const&)(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>allocator<char>::allocator()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>allocator<char>::~~allocator()(GLIBCXX_3.4) [ISOCXX]</code> |
| <code>allocator<char>::~~allocator()(GLIBCXX_3.4) [ISOCXX]</code> |

8.1.143 Class `allocator<wchar_t>`

8.1.143.1 Class data for `allocator<wchar_t>`

8.1.143.2 Interfaces for Class `allocator<wchar_t>`

An LSB conforming implementation shall provide the generic methods for Class `std::allocator<wchar_t>` specified in Table 8-433, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-433 libstdcxx - Class `allocator<wchar_t>` Function Interfaces

| |
|--|
| <code>allocator<wchar_t>::allocator(allocator<wchar_t> const&)(GLIBCXX_3.4)</code> |
|--|

| |
|--|
| [ISOCXX] |
| allocator<wchar_t>::allocator()(GLIBCXX_3.4) [ISOCXX] |
| allocator<wchar_t>::allocator(allocator<wchar_t> const&)(GLIBCXX_3.4) [ISOCXX] |
| allocator<wchar_t>::allocator()(GLIBCXX_3.4) [ISOCXX] |
| allocator<wchar_t>::~~allocator()(GLIBCXX_3.4) [ISOCXX] |
| allocator<wchar_t>::~~allocator()(GLIBCXX_3.4) [ISOCXX] |

8.1.144 Class `__gnu_cxx::__pool<true>`

8.1.144.1 Interfaces for Class `__gnu_cxx::__pool<true>`

An LSB conforming implementation shall provide the generic methods for Class `__gnu_cxx::__pool<true>` specified in Table 8-434, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-434 libstdcxx - Class `__gnu_cxx::__pool<true>` Function Interfaces

| |
|---|
| <code>__gnu_cxx::__pool<true>::_M_destroy()(GLIBCXX_3.4.4) [LSB]</code> |
| <code>__gnu_cxx::__pool<true>::_M_initialize(void (*)(void*))(GLIBCXX_3.4.4) [LSB]</code> |
| <code>__gnu_cxx::__pool<true>::_M_initialize()(GLIBCXX_3.4.6) [LSB]</code> |
| <code>__gnu_cxx::__pool<true>::_M_get_thread_id()(GLIBCXX_3.4.4) [LSB]</code> |
| <code>__gnu_cxx::__pool<true>::_M_destroy_thread_key(void*)(GLIBCXX_3.4.4) [LSB]</code> |

8.1.145 Class `__gnu_cxx::__pool<false>`

8.1.145.1 Interfaces for Class `__gnu_cxx::__pool<false>`

An LSB conforming implementation shall provide the generic methods for Class `__gnu_cxx::__pool<false>` specified in Table 8-435, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-435 libstdcxx - Class `__gnu_cxx::__pool<false>` Function Interfaces

| |
|---|
| <code>__gnu_cxx::__pool<false>::_M_destroy()(GLIBCXX_3.4.4) [LSB]</code> |
| <code>__gnu_cxx::__pool<false>::_M_initialize()(GLIBCXX_3.4.4) [LSB]</code> |

8.1.146 Class `__gnu_cxx::free_list`

8.1.146.1 Interfaces for Class `__gnu_cxx::free_list`

An LSB conforming implementation shall provide the generic methods for Class `__gnu_cxx::free_list` specified in Table 8-436, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-436 libstdcxx - Class `__gnu_cxx::free_list` Function Interfaces

| |
|--|
| <code>__gnu_cxx::free_list::_M_clear()(GLIBCXX_3.4.4) [LSB]</code> |
|--|

8.1.147 Class `char_traits<char>`**8.1.147.1 Interfaces for Class `char_traits<char>`**

An LSB conforming implementation shall provide the generic methods for Class `std::char_traits<char>` specified in Table 8-437, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-437 `libstdcxx` - Class `char_traits<char>` Function Interfaces

| |
|--|
| <code>char_traits<char>::eq(char const&, char const&)(GLIBCXX_3.4.5) [ISOCXX]</code> |
|--|

8.1.148 Class `char_traits<wchar_t>`**8.1.148.1 Interfaces for Class `char_traits<wchar_t>`**

An LSB conforming implementation shall provide the generic methods for Class `std::char_traits<wchar_t>` specified in Table 8-438, with the full mandatory functionality as described in the referenced underlying specification.

Table 8-438 `libstdcxx` - Class `char_traits<wchar_t>` Function Interfaces

| |
|---|
| <code>char_traits<wchar_t>::eq(wchar_t const&, wchar_t const&)(GLIBCXX_3.4.5) [ISOCXX]</code> |
|---|

8.2 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 8.1 shall behave as described in the referenced base document.

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