

Linux Standard Base C++ Specification for PPC32 3.0

Linux Standard Base C++ Specification for PPC32 3.0

Copyright © 2004, 2005 Free Standards Group

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.1; with no Invariant Sections, with no Front-Cover Texts, and with no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

Portions of the text are copyrighted by the following parties:

- The Regents of the University of California
- Free Software Foundation
- Ian F. Darwin
- Paul Vixie
- BSDI (now Wind River)
- Andrew G Morgan
- Jean-loup Gailly and Mark Adler
- Massachusetts Institute of Technology

These excerpts are being used in accordance with their respective licenses.

Linux is a trademark of Linus Torvalds.

UNIX a registered trademark of the Open Group in the United States and other countries.

LSB is a trademark of the Free Standards Group in the USA and other countries.

AMD is a trademark of Advanced Micro Devices, Inc.

Intel and Itanium are registered trademarks and Intel386 is a trademarks of Intel Corporation.

PowerPC and PowerPC Architecture are trademarks of the IBM Corporation.

OpenGL is a registered trademark of Silicon Graphics, Inc.

Contents

Foreword	xi
Introduction	xii
I Introductory Elements	13
1 Scope.....	13
1.1 General.....	13
1.2 Module Specific Scope.....	13
2 Normative References.....	14
3 Requirements	15
3.1 Relevant Libraries	15
3.2 LSB Implementation Conformance	15
3.3 LSB Application Conformance.....	16
4 Definitions	17
5 Terminology	18
6 Documentation Conventions	20
II Base Libraries.....	21
7 Libraries	21
7.1 Interfaces for libstdcxx.....	21
7.2 Interface Definitions for libstdcxx.....	156
A GNU Free Documentation License	157
A.1 PREAMBLE	157
A.2 APPLICABILITY AND DEFINITIONS	157
A.3 VERBATIM COPYING	158
A.4 COPYING IN QUANTITY	158
A.5 MODIFICATIONS.....	159
A.6 COMBINING DOCUMENTS	160
A.7 COLLECTIONS OF DOCUMENTS	161
A.8 AGGREGATION WITH INDEPENDENT WORKS	161
A.9 TRANSLATION.....	161
A.10 TERMINATION.....	161
A.11 FUTURE REVISIONS OF THIS LICENSE	161
A.12 How to use this License for your documents	162

List of Tables

2-1 Normative References	14
3-1 Standard Library Names	15
7-1 libstdcxx Definition	21
7-2 libstdcxx - C++ Runtime Support Function Interfaces	21
7-3 Primary vtable for <code>type_info</code>	22
7-4 <code>typeinfo</code> for <code>type_info</code>	22
7-5 Primary vtable for <code>__cxxabiv1::__enum_type_info</code>	22
7-6 <code>typeinfo</code> for <code>__cxxabiv1::__enum_type_info</code>	23
7-7 Primary vtable for <code>__cxxabiv1::__array_type_info</code>	23
7-8 <code>typeinfo</code> for <code>__cxxabiv1::__array_type_info</code>	24
7-9 Primary vtable for <code>__cxxabiv1::__class_type_info</code>	24
7-10 <code>typeinfo</code> for <code>__cxxabiv1::__class_type_info</code>	25
7-11 libstdcxx - Class <code>__cxxabiv1::__class_type_info</code> Function Interfaces	25
7-12 Primary vtable for <code>__cxxabiv1::__pbase_type_info</code>	26
7-13 <code>typeinfo</code> for <code>__cxxabiv1::__pbase_type_info</code>	26
7-14 Primary vtable for <code>__cxxabiv1::__pointer_type_info</code>	26
7-15 <code>typeinfo</code> for <code>__cxxabiv1::__pointer_type_info</code>	27
7-16 Primary vtable for <code>__cxxabiv1::__function_type_info</code>	27
7-17 <code>typeinfo</code> for <code>__cxxabiv1::__function_type_info</code>	28
7-18 Primary vtable for <code>__cxxabiv1::__si_class_type_info</code>	28
7-19 <code>typeinfo</code> for <code>__cxxabiv1::__si_class_type_info</code>	29
7-20 libstdcxx - Class <code>__cxxabiv1::__si_class_type_info</code> Function Interfaces	29
7-21 Primary vtable for <code>__cxxabiv1::__vmi_class_type_info</code>	30
7-22 <code>typeinfo</code> for <code>__cxxabiv1::__vmi_class_type_info</code>	31
7-23 libstdcxx - Class <code>__cxxabiv1::__vmi_class_type_info</code> Function Interfaces	31
7-24 Primary vtable for <code>__cxxabiv1::__fundamental_type_info</code>	31
7-25 <code>typeinfo</code> for <code>__cxxabiv1::__fundamental_type_info</code>	32
7-26 Primary vtable for <code>__cxxabiv1::__pointer_to_member_type_info</code>	32
7-27 <code>typeinfo</code> for <code>__cxxabiv1::__pointer_to_member_type_info</code>	33
7-28 Primary vtable for <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char> >..</code> ..	33
7-29 Primary vtable for <code>__gnu_cxx::stdio_sync_filebuf<wchar_t,</code> <code>char_traits<wchar_t> ></code>	34
7-30 libstdcxx - Class <code>__gnu_cxx::__pool_alloc_base</code> Function Interfaces	35
7-31 Primary vtable for <code>exception</code>	36
7-32 <code>typeinfo</code> for <code>exception</code>	36
7-33 Primary vtable for <code>bad_typeid</code>	37
7-34 <code>typeinfo</code> for <code>bad_typeid</code>	37
7-35 Primary vtable for <code>logic_error</code>	37
7-36 <code>typeinfo</code> for <code>logic_error</code>	37
7-37 Primary vtable for <code>range_error</code>	38
7-38 <code>typeinfo</code> for <code>range_error</code>	38
7-39 Primary vtable for <code>domain_error</code>	38
7-40 <code>typeinfo</code> for <code>domain_error</code>	38
7-41 Primary vtable for <code>length_error</code>	39
7-42 <code>typeinfo</code> for <code>length_error</code>	39
7-43 Primary vtable for <code>out_of_range</code>	39
7-44 <code>typeinfo</code> for <code>out_of_range</code>	40
7-45 Primary vtable for <code>bad_exception</code>	40
7-46 <code>typeinfo</code> for <code>bad_exception</code>	40
7-47 Primary vtable for <code>runtime_error</code>	40

7-48	typeinfo for runtime_error	41
7-49	Primary vtable for overflow_error	41
7-50	typeinfo for overflow_error	41
7-51	Primary vtable for underflow_error	42
7-52	typeinfo for underflow_error	42
7-53	Primary vtable for invalid_argument	42
7-54	typeinfo for invalid_argument	42
7-55	Primary vtable for bad_cast	43
7-56	typeinfo for bad_cast	43
7-57	Primary vtable for bad_alloc	43
7-58	typeinfo for bad_alloc	44
7-59	typeinfo for ctype_base	46
7-60	Primary vtable for __ctype_abstract_base<char>	46
7-61	Primary vtable for __ctype_abstract_base<wchar_t>	47
7-62	Primary vtable for ctype<char>	47
7-63	libstdcxx - Class ctype<char> Function Interfaces	48
7-64	Primary vtable for ctype<wchar_t>	48
7-65	typeinfo for ctype<wchar_t>	49
7-66	libstdcxx - Class ctype<wchar_t> Function Interfaces	50
7-67	Primary vtable for ctype_byname<char>	50
7-68	typeinfo for ctype_byname<char>	51
7-69	libstdcxx - Class ctype_byname<char> Function Interfaces	51
7-70	libstdcxx - Class ctype_byname<wchar_t> Function Interfaces	51
7-71	libstdcxx - Class basic_string<char, char_traits<char>, allocator<char> > Function Interfaces	52
7-72	libstdcxx - Class basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces	56
7-73	Primary vtable for basic_stringstream<char, char_traits<char>, allocator<char> >	61
7-74	Secondary vtable for basic_stringstream<char, char_traits<char>, allocator<char> >	61
7-75	Secondary vtable for basic_stringstream<char, char_traits<char>, allocator<char> >	61
7-76	VTT for basic_stringstream<char, char_traits<char>, allocator<char> >	62
7-77	libstdcxx - Class basic_stringstream<char, char_traits<char>, allocator<char> > Function Interfaces	62
7-78	Primary vtable for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	63
7-79	Secondary vtable for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	63
7-80	Secondary vtable for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	63
7-81	VTT for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	64
7-82	libstdcxx - Class basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces	64
7-83	Primary vtable for basic_istreamstream<char, char_traits<char>, allocator<char> >	65
7-84	Secondary vtable for basic_istreamstream<char, char_traits<char>, allocator<char> >	65
7-85	VTT for basic_istreamstream<char, char_traits<char>, allocator<char> >	65
7-86	libstdcxx - Class basic_istreamstream<char, char_traits<char>, allocator<char> > Function Interfaces	66

7-87 Primary vtable for basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	66
7-88 Secondary vtable for basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	66
7-89 VTT for basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	67
7-90 libstdc++ - Class basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces.....	67
7-91 Primary vtable for basic_ostream<char, char_traits<char>, allocator<char> >	68
7-92 Secondary vtable for basic_ostream<char, char_traits<char>, allocator<char> >	68
7-93 VTT for basic_ostream<char, char_traits<char>, allocator<char> >	68
7-94 libstdc++ - Class basic_ostream<char, char_traits<char>, allocator<char> > Function Interfaces.....	69
7-95 Primary vtable for basic_ostream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	69
7-96 Secondary vtable for basic_ostream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	69
7-97 VTT for basic_ostream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	70
7-98 libstdc++ - Class basic_ostream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces.....	70
7-99 Primary vtable for basic_stringbuf<char, char_traits<char>, allocator<char> >.....	70
7-100 typeid for basic_stringbuf<char, char_traits<char>, allocator<char> >	72
7-101 libstdc++ - Class basic_stringbuf<char, char_traits<char>, allocator<char> > Function Interfaces	72
7-102 Primary vtable for basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	72
7-103 typeid for basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >	74
7-104 libstdc++ - Class basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces.....	74
7-105 Primary vtable for basic_istream<char, char_traits<char> >.....	74
7-106 Secondary vtable for basic_istream<char, char_traits<char> >	75
7-107 Secondary vtable for basic_istream<char, char_traits<char> >	75
7-108 VTT for basic_istream<char, char_traits<char> >	75
7-109 libstdc++ - Class basic_istream<char, char_traits<char> > Function Interfaces.....	75
7-110 Primary vtable for basic_istream<wchar_t, char_traits<wchar_t> >	76
7-111 Secondary vtable for basic_istream<wchar_t, char_traits<wchar_t> >	76
7-112 Secondary vtable for basic_istream<wchar_t, char_traits<wchar_t> >	77
7-113 VTT for basic_istream<wchar_t, char_traits<wchar_t> >	77
7-114 libstdc++ - Class basic_istream<wchar_t, char_traits<wchar_t> > Function Interfaces.....	77
7-115 Primary vtable for basic_istream<char, char_traits<char> >.....	78
7-116 Secondary vtable for basic_istream<char, char_traits<char> >.....	78
7-117 VTT for basic_istream<char, char_traits<char> >	78
7-118 libstdc++ - Class basic_istream<char, char_traits<char> > Function Interfaces.....	78
7-119 Primary vtable for basic_istream<wchar_t, char_traits<wchar_t> >.....	79
7-120 Secondary vtable for basic_istream<wchar_t, char_traits<wchar_t> >	79
7-121 VTT for basic_istream<wchar_t, char_traits<wchar_t> >	80
7-122 libstdc++ - Class basic_istream<wchar_t, char_traits<wchar_t> > Function Interfaces.....	80

7-123 Primary vtable for basic_ostream<char, char_traits<char> >	81
7-124 Secondary vtable for basic_ostream<char, char_traits<char> >	81
7-125 VTT for basic_ostream<char, char_traits<char> >	81
7-126 libstdcxx - Class basic_ostream<char, char_traits<char> > Function Interfaces	82
7-127 Primary vtable for basic_ostream<wchar_t, char_traits<wchar_t> >	82
7-128 Secondary vtable for basic_ostream<wchar_t, char_traits<wchar_t> >	83
7-129 VTT for basic_ostream<wchar_t, char_traits<wchar_t> >	83
7-130 libstdcxx - Class basic_ostream<wchar_t, char_traits<wchar_t> > Function Interfaces	83
7-131 Primary vtable for basic_fstream<char, char_traits<char> >	84
7-132 Secondary vtable for basic_fstream<char, char_traits<char> >	84
7-133 Secondary vtable for basic_fstream<char, char_traits<char> >	84
7-134 VTT for basic_fstream<char, char_traits<char> >	84
7-135 libstdcxx - Class basic_fstream<char, char_traits<char> > Function Interfaces	85
7-136 Primary vtable for basic_fstream<wchar_t, char_traits<wchar_t> >	85
7-137 Secondary vtable for basic_fstream<wchar_t, char_traits<wchar_t> >	85
7-138 Secondary vtable for basic_fstream<wchar_t, char_traits<wchar_t> >	86
7-139 VTT for basic_fstream<wchar_t, char_traits<wchar_t> >	86
7-140 libstdcxx - Class basic_fstream<wchar_t, char_traits<wchar_t> > Function Interfaces	86
7-141 Primary vtable for basic_ifstream<char, char_traits<char> >	87
7-142 Secondary vtable for basic_ifstream<char, char_traits<char> >	87
7-143 VTT for basic_ifstream<char, char_traits<char> >	87
7-144 libstdcxx - Class basic_ifstream<char, char_traits<char> > Function Interfaces	88
7-145 Primary vtable for basic_ifstream<wchar_t, char_traits<wchar_t> >	88
7-146 Secondary vtable for basic_ifstream<wchar_t, char_traits<wchar_t> >	88
7-147 VTT for basic_ifstream<wchar_t, char_traits<wchar_t> >	89
7-148 libstdcxx - Class basic_ifstream<wchar_t, char_traits<wchar_t> > Function Interfaces	89
7-149 Primary vtable for basic_ofstream<char, char_traits<char> >	89
7-150 Secondary vtable for basic_ofstream<char, char_traits<char> >	89
7-151 VTT for basic_ofstream<char, char_traits<char> >	90
7-152 libstdcxx - Class basic_ofstream<char, char_traits<char> > Function Interfaces	90
7-153 Primary vtable for basic_ofstream<wchar_t, char_traits<wchar_t> >	90
7-154 Secondary vtable for basic_ofstream<wchar_t, char_traits<wchar_t> >	91
7-155 VTT for basic_ofstream<wchar_t, char_traits<wchar_t> >	91
7-156 libstdcxx - Class basic_ofstream<wchar_t, char_traits<wchar_t> > Function Interfaces	91
7-157 Primary vtable for basic_streambuf<char, char_traits<char> >	92
7-158 typeid for basic_streambuf<char, char_traits<char> >	93
7-159 libstdcxx - Class basic_streambuf<char, char_traits<char> > Function Interfaces	93
7-160 Primary vtable for basic_streambuf<wchar_t, char_traits<wchar_t> >	94
7-161 typeid for basic_streambuf<wchar_t, char_traits<wchar_t> >	95
7-162 libstdcxx - Class basic_streambuf<wchar_t, char_traits<wchar_t> > Function Interfaces	95
7-163 Primary vtable for basic_filebuf<char, char_traits<char> >	96
7-164 typeid for basic_filebuf<char, char_traits<char> >	97
7-165 libstdcxx - Class basic_filebuf<char, char_traits<char> > Function Interfaces	97
7-166 Primary vtable for basic_filebuf<wchar_t, char_traits<wchar_t> >	97
7-167 typeid for basic_filebuf<wchar_t, char_traits<wchar_t> >	98
7-168 libstdcxx - Class basic_filebuf<wchar_t, char_traits<wchar_t> > Function Interfaces	99

7-169	typeinfo for ios_base.....	100
7-170	Primary vtable for basic_ios<char, char_traits<char> >.....	100
7-171	Primary vtable for ios_base::failure.....	100
7-172	typeinfo for ios_base::failure.....	101
7-173	Primary vtable for __timepunct<char>.....	101
7-174	typeinfo for __timepunct<char>.....	101
7-175	libstdcxx - Class __timepunct<char> Function Interfaces.....	101
7-176	Primary vtable for __timepunct<wchar_t>.....	102
7-177	typeinfo for __timepunct<wchar_t>.....	102
7-178	libstdcxx - Class __timepunct<wchar_t> Function Interfaces.....	102
7-179	typeinfo for messages_base.....	103
7-180	Primary vtable for messages<char>.....	103
7-181	libstdcxx - Class messages<char> Function Interfaces.....	104
7-182	Primary vtable for messages<wchar_t>.....	104
7-183	libstdcxx - Class messages<wchar_t> Function Interfaces.....	105
7-184	Primary vtable for messages_byname<char>.....	105
7-185	typeinfo for messages_byname<char>.....	105
7-186	libstdcxx - Class messages_byname<char> Function Interfaces.....	106
7-187	Primary vtable for messages_byname<wchar_t>.....	106
7-188	typeinfo for messages_byname<wchar_t>.....	107
7-189	libstdcxx - Class messages_byname<wchar_t> Function Interfaces.....	107
7-190	Primary vtable for numpunct<char>.....	107
7-191	typeinfo for numpunct<char>.....	108
7-192	libstdcxx - Class numpunct<char> Function Interfaces.....	108
7-193	Primary vtable for numpunct<wchar_t>.....	108
7-194	typeinfo for numpunct<wchar_t>.....	109
7-195	libstdcxx - Class numpunct<wchar_t> Function Interfaces.....	109
7-196	Primary vtable for numpunct_byname<char>.....	109
7-197	typeinfo for numpunct_byname<char>.....	110
7-198	libstdcxx - Class numpunct_byname<char> Function Interfaces.....	110
7-199	Primary vtable for numpunct_byname<wchar_t>.....	110
7-200	typeinfo for numpunct_byname<wchar_t>.....	111
7-201	libstdcxx - Class numpunct_byname<wchar_t> Function Interfaces.....	111
7-202	Primary vtable for __codecvt_abstract_base<wchar_t, char, __mbstate_t> ..	112
7-203	typeinfo for codecvt_base.....	112
7-204	Primary vtable for codecvt<char, char, __mbstate_t>.....	113
7-205	typeinfo for codecvt<char, char, __mbstate_t>.....	113
7-206	Primary vtable for __codecvt_abstract_base<char, char, __mbstate_t>.....	114
7-207	libstdcxx - Class codecvt<char, char, __mbstate_t> Function Interfaces.....	114
7-208	Primary vtable for codecvt<wchar_t, char, __mbstate_t>.....	115
7-209	typeinfo for codecvt<wchar_t, char, __mbstate_t>.....	116
7-210	libstdcxx - Class codecvt<wchar_t, char, __mbstate_t> Function Interfaces.....	116
7-211	Primary vtable for codecvt_byname<char, char, __mbstate_t>.....	116
7-212	typeinfo for codecvt_byname<char, char, __mbstate_t>.....	117
7-213	libstdcxx - Class codecvt_byname<char, char, __mbstate_t> Function Interfaces.....	117
7-214	Primary vtable for codecvt_byname<wchar_t, char, __mbstate_t>.....	118
7-215	typeinfo for codecvt_byname<wchar_t, char, __mbstate_t>.....	118
7-216	Primary vtable for collate_byname<wchar_t>.....	119
7-217	typeinfo for collate_byname<wchar_t>.....	119
7-218	libstdcxx - Class codecvt_byname<wchar_t, char, __mbstate_t> Function Interfaces.....	119
7-219	Primary vtable for collate<char>.....	120

7-220	typeinfo for collate<char>	120
7-221	libstdcxx - Class collate<char> Function Interfaces	120
7-222	Primary vtable for collate<wchar_t>	121
7-223	typeinfo for collate<wchar_t>	121
7-224	libstdcxx - Class collate<wchar_t> Function Interfaces	121
7-225	Primary vtable for collate_byname<char>	122
7-226	typeinfo for collate_byname<char>	122
7-227	libstdcxx - Class collate_byname<char> Function Interfaces	123
7-228	typeinfo for time_base	123
7-229	Primary vtable for time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >	123
7-230	typeinfo for time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >	125
7-231	libstdcxx - Class time_get_byname<char, istreambuf_iterator<char, char_traits<char> > > Function Interfaces	125
7-232	Primary vtable for time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >	125
7-233	typeinfo for time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >	127
7-234	libstdcxx - Class time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	127
7-235	Primary vtable for time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >	127
7-236	typeinfo for time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >	128
7-237	libstdcxx - Class time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces	128
7-238	Primary vtable for time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >	129
7-239	typeinfo for time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >	129
7-240	libstdcxx - Class time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	130
7-241	Primary vtable for time_get<char, istreambuf_iterator<char, char_traits<char> > >	130
7-242	libstdcxx - Class time_get<char, istreambuf_iterator<char, char_traits<char> > > Function Interfaces	131
7-243	Primary vtable for time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >	132
7-244	libstdcxx - Class time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	133
7-245	libstdcxx - Class time_put<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces	134
7-246	libstdcxx - Class time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	134
7-247	Primary vtable for moneypunct<char, false>	135
7-248	libstdcxx - Class moneypunct<char, false> Function Interfaces	135
7-249	Primary vtable for moneypunct<char, true>	136
7-250	libstdcxx - Class moneypunct<char, true> Function Interfaces	137
7-251	Primary vtable for moneypunct<wchar_t, false>	137
7-252	libstdcxx - Class moneypunct<wchar_t, false> Function Interfaces	138
7-253	Primary vtable for moneypunct<wchar_t, true>	138
7-254	libstdcxx - Class moneypunct<wchar_t, true> Function Interfaces	139

7-255 Primary vtable for money_punct_byname<char, false>	140
7-256 typeid for money_punct_byname<char, false>	140
7-257 libstdcxx - Class money_punct_byname<char, false> Function Interfaces	141
7-258 Primary vtable for money_punct_byname<char, true>	141
7-259 typeid for money_punct_byname<char, true>	142
7-260 libstdcxx - Class money_punct_byname<char, true> Function Interfaces	142
7-261 Primary vtable for money_punct_byname<wchar_t, false>	142
7-262 typeid for money_punct_byname<wchar_t, false>	143
7-263 libstdcxx - Class money_punct_byname<wchar_t, false> Function Interfaces	143
7-264 Primary vtable for money_punct_byname<wchar_t, true>	144
7-265 typeid for money_punct_byname<wchar_t, true>	144
7-266 libstdcxx - Class money_punct_byname<wchar_t, true> Function Interfaces	145
7-267 typeid for money_base	145
7-268 Primary vtable for money_get<char, istreambuf_iterator<char, char_traits<char> > >	145
7-269 typeid for money_get<char, istreambuf_iterator<char, char_traits<char> > >	146
7-270 libstdcxx - Class money_get<char, istreambuf_iterator<char, char_traits<char> > > Function Interfaces	147
7-271 Primary vtable for money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >	147
7-272 typeid for money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >	148
7-273 libstdcxx - Class money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	148
7-274 Primary vtable for money_put<char, ostreambuf_iterator<char, char_traits<char> > >	148
7-275 typeid for money_put<char, ostreambuf_iterator<char, char_traits<char> > >	149
7-276 libstdcxx - Class money_put<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces	149
7-277 Primary vtable for money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >	150
7-278 typeid for money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >	151
7-279 libstdcxx - Class money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	151
7-280 libstdcxx - Class locale Function Interfaces	151
7-281 Primary vtable for locale::facet	152
7-282 typeid for locale::facet	152
7-283	152
7-284 libstdcxx - Class num_get<char, istreambuf_iterator<char, char_traits<char> > > Function Interfaces	153
7-285 libstdcxx - Class num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	153
7-286 libstdcxx - Class num_put<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces	154
7-287 libstdcxx - Class num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	154
7-288 libstdcxx - Class gslice Function Interfaces	155
7-289 libstdcxx - Class __basic_file<char> Function Interfaces	155
7-290 libstdcxx - Class valarray<unsigned int> Function Interfaces	156

Foreword

This is version 3.0 of the Linux Standard Base C++ Specification for PPC32. This specification is part of a family of specifications under the general title "Linux Standard Base". Developers of applications or implementations interested in using the LSB trademark should see the Free Standards Group Certification Policy for details.

Introduction

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

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

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

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

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") describing those parts of the interface that remain constant across all implementations of the LSB, and an architecture-specific specification ("LSB-arch") describing the parts of the interface that vary by processor architecture. Together, the LSB-generic and the architecture-specific supplement for a single hardware architecture provide a complete interface specification for compiled application programs on systems that share a common hardware architecture.

The LSB-generic document shall be used in conjunction with an architecture-specific supplement. Whenever a section of the LSB-generic specification shall be supplemented by architecture-specific information, the LSB-generic document includes a reference to the architecture supplement. Architecture supplements 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 shall provide 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 POSIX (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/
ISO/IEC 14882: 2003 C++ Language	ISO/IEC 14882: 2003 Programming languages --C++	
Itanium C++ ABI	Itanium C++ ABI (Revision: 1.75)	http://www.codesour cery.com/cxx-abi/abi.html
this specification	Linux Standard Base	http://www.linuxbase.o rg/spec/

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 Definitions

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

can

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

cannot

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

may

is permitted; is allowed; is permissible

need not

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

shall

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

shall not

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

should

it is recommended that; ought to

should not

it is not recommended that; ought not to

5 Terminology

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

archLSB

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

Binary Standard

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

gLSB

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

implementation-defined

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

Shell Script

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

Source Standard

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

undefined

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

unspecified

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

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

6 Documentation Conventions

Throughout this document, the following typographic conventions are used:

`function()`

the name of a function

command

the name of a command or utility

`CONSTANT`

a constant value

parameter

a parameter

`variable`

a variable

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

name

the name of the interface

(symver)

An optional symbol version identifier, if required.

[*refno*]

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

For example,

<code>forkpty(GLIBC_2.0) [1]</code>

refers to the interface named `forkpty()` with symbol version `GLIBC_2.0` that is defined in the first of the listed references below the table.

7 Libraries

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

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

7.1 Interfaces for libstdcxx

Table 7-1 defines the library name and shared object name for the libstdcxx library

Table 7-1 libstdcxx Definition

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

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

Itanium C++ ABI
ISO/IEC 14882: 2003 C++ Language
this specification

7.1.1 C++ Runtime Support

7.1.1.1 Interfaces for C++ Runtime Support

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

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

operator new[](unsigned int)(GLIBCXX_3.4) [1]
operator new[](unsigned int, nothrow_t const&)(GLIBCXX_3.4) [1]
operator new(unsigned int)(GLIBCXX_3.4) [1]
operator new(unsigned int, nothrow_t const&)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.2 C++ type descriptors for built-in types

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

No external methods are defined for libstdcxx - C++ type descriptors for built-in types

7.1.3 C++ `_Rb_tree`

7.1.3.1 Interfaces for C++ `_Rb_tree`

No external methods are defined for `libstdc++ - C++ _Rb_tree`

7.1.4 Class `type_info`

7.1.4.1 Class data for `type_info`

The virtual table for the `std::type_info` class is described by Table 7-3

Table 7-3 Primary vtable for `type_info`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo 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 7-4

Table 7-4 typeinfo for `type_info`

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	typeinfo name for <code>type_info</code>

7.1.4.2 Interfaces for Class `type_info`

No external methods are defined for `libstdc++ - Class std::type_info`

7.1.5 Class `__cxxabiv1::__enum_type_info`

7.1.5.1 Class data for `__cxxabiv1::__enum_type_info`

The virtual table for the `__cxxabiv1::__enum_type_info` class is described by Table 7-5

Table 7-5 Primary vtable for `__cxxabiv1::__enum_type_info`

Base Offset	0
Virtual Base Offset	0

RTTI	typeinfo for __cxxabiv1::__enum_type_info
vfunc[0]:	__cxxabiv1::__enum_type_info::~~enum_type_info()
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 7-6

Table 7-6 typeinfo for __cxxabiv1::__enum_type_info

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for __cxxabiv1::__enum_type_info

7.1.5.2 Interfaces for Class __cxxabiv1::__enum_type_info

No external methods are defined for libstdc++ - Class

__cxxabiv1::__enum_type_info

7.1.6 Class __cxxabiv1::__array_type_info

7.1.6.1 Class data for __cxxabiv1::__array_type_info

The virtual table for the __cxxabiv1::__array_type_info class is described by Table 7-7

Table 7-7 Primary vtable for __cxxabiv1::__array_type_info

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for __cxxabiv1::__array_type_info
vfunc[0]:	__cxxabiv1::__array_type_info::~~array_type_info()
vfunc[1]:	__cxxabiv1::__array_type_info::~~array_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::__array_type_info` class is described by Table 7-8

Table 7-8 typeid for `__cxxabiv1::__array_type_info`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>__cxxabiv1::__array_type_info</code>

7.1.6.2 Interfaces for Class `__cxxabiv1::__array_type_info`

No external methods are defined for libstdc++ - Class `__cxxabiv1::__array_type_info`

7.1.7 Class `__cxxabiv1::__class_type_info`

7.1.7.1 Class data for `__cxxabiv1::__class_type_info`

The virtual table for the `__cxxabiv1::__class_type_info` class is described by Table 7-9

Table 7-9 Primary vtable for `__cxxabiv1::__class_type_info`

Base Offset	0
Virtual Base Offset	0
RTTI	typeid 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::__upcas</code>

	t_result&) const
vfunc[7]:	__cxxabiv1::__class_type_info::__do_dyn ycast(int, __cxxabiv1::__class_type_info::__sub_k ind, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__dynca st_result&) const
vfunc[8]:	__cxxabiv1::__class_type_info::__do_fi nd_public_src(int, void const*, __cxxabiv1::__class_type_info const*, void const*) const

The Run Time Type Information for the `__cxxabiv1::__class_type_info` class is described by Table 7-10

Table 7-10 typeinfo for `__cxxabiv1::__class_type_info`

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

7.1.7.2 Interfaces for Class `__cxxabiv1::__class_type_info`

An LSB conforming implementation shall provide the architecture specific methods for Class `__cxxabiv1::__class_type_info` specified in Table 7-11, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-11 libstdc++ - Class `__cxxabiv1::__class_type_info` Function Interfaces

<code>__cxxabiv1::__class_type_info::__do_dyn ycast(int, __cxxabiv1::__class_type_info::__sub_k ind, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__dynca st_result&) const(CXXABI_1.3) [1]</code>
<code>__cxxabiv1::__class_type_info::__do_fi nd_public_src(int, void const*, __cxxabiv1::__class_type_info const*, void const*) const(CXXABI_1.3) [1]</code>

Referenced Specification(s)

[1]. Itanium C++ ABI

7.1.8 Class `__cxxabiv1::__pbase_type_info`

7.1.8.1 Class data for `__cxxabiv1::__pbase_type_info`

The virtual table for the `__cxxabiv1::__pbase_type_info` class is described by Table 7-12

Table 7-12 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 7-13

Table 7-13 typeinfo for `__cxxabiv1::__pbase_type_info`

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

7.1.8.2 Interfaces for Class `__cxxabiv1::__pbase_type_info`

No external methods are defined for libstdc++ - Class
`__cxxabiv1::__pbase_type_info`

7.1.9 Class `__cxxabiv1::__pointer_type_info`

7.1.9.1 Class data for `__cxxabiv1::__pointer_type_info`

The virtual table for the `__cxxabiv1::__pointer_type_info` class is described by Table 7-14

Table 7-14 Primary vtable for `__cxxabiv1::__pointer_type_info`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for

	<code>__cxxabiv1::__pointer_type_info</code>
<code>vfunc[0]:</code>	<code>__cxxabiv1::__pointer_type_info::~~_p ointer_type_info()</code>
<code>vfunc[1]:</code>	<code>__cxxabiv1::__pointer_type_info::~~_p ointer_type_info()</code>
<code>vfunc[2]:</code>	<code>__cxxabiv1::__pointer_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::__pbase_type_info::__do_c atch(type_info const*, void**, unsigned int) const</code>
<code>vfunc[5]:</code>	<code>type_info::__do_upcast(__cxxabiv1::__c lass_type_info const*, void**) const</code>
<code>vfunc[6]:</code>	<code>__cxxabiv1::__pointer_type_info::__poi nter_catch(__cxxabiv1::__pbase_type_i nfo const*, void**, unsigned int) const</code>

The Run Time Type Information for the `__cxxabiv1::__pointer_type_info` class is described by Table 7-15

Table 7-15 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>

7.1.9.2 Interfaces for Class `__cxxabiv1::__pointer_type_info`

No external methods are defined for libstdc++ - Class
`__cxxabiv1::__pointer_type_info`

7.1.10 Class `__cxxabiv1::__function_type_info`

7.1.10.1 Class data for `__cxxabiv1::__function_type_info`

The virtual table for the `__cxxabiv1::__function_type_info` class is described by Table 7-16

Table 7-16 Primary vtable for `__cxxabiv1::__function_type_info`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>__cxxabiv1::__function_type_info</code>
<code>vfunc[0]:</code>	<code>__cxxabiv1::__function_type_info::~~_f unction_type_info()</code>
<code>vfunc[1]:</code>	<code>__cxxabiv1::__function_type_info::~~_f</code>

	unction_type_info()
vfunc[2]:	type_info::__is_pointer_p() const
vfunc[3]:	__cxxabiv1::__function_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::__function_type_info` class is described by Table 7-17

Table 7-17 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>

7.1.10.2 Interfaces for Class `__cxxabiv1::__function_type_info`

No external methods are defined for libstdc++ - Class
`__cxxabiv1::__function_type_info`

7.1.11 Class `__cxxabiv1::__si_class_type_info`

7.1.11.1 Class data for `__cxxabiv1::__si_class_type_info`

The virtual table for the `__cxxabiv1::__si_class_type_info` class is described by Table 7-18

Table 7-18 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>
vfunc[0]:	<code>__cxxabiv1::__si_class_type_info::~~si_class_type_info()</code>
vfunc[1]:	<code>__cxxabiv1::__si_class_type_info::~~si_class_type_info()</code>
vfunc[2]:	type_info::__is_pointer_p() const
vfunc[3]:	type_info::__is_function_p() const
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_u</code>

	<code>pcast(__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>
<code>vfunc[7]:</code>	<code>__cxxabiv1::__si_class_type_info::__do_dynccast(int, __cxxabiv1::__class_type_info::__sub_kind, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__dynccast_result&) const</code>
<code>vfunc[8]:</code>	<code>__cxxabiv1::__si_class_type_info::__do_find_public_src(int, void const*, __cxxabiv1::__class_type_info const*, void const*) const</code>

The Run Time Type Information for the `__cxxabiv1::__si_class_type_info` class is described by Table 7-19

Table 7-19 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>

7.1.11.2 Interfaces for Class `__cxxabiv1::__si_class_type_info`

An LSB conforming implementation shall provide the architecture specific methods for Class `__cxxabiv1::__si_class_type_info` specified in Table 7-20, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-20 libstdc++ - Class `__cxxabiv1::__si_class_type_info` Function Interfaces

<code>__cxxabiv1::__si_class_type_info::__do_dynccast(int, __cxxabiv1::__class_type_info::__sub_kind, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__dynccast_result&) const(CXXABI_1.3) [1]</code>
<code>__cxxabiv1::__si_class_type_info::__do_find_public_src(int, void const*, __cxxabiv1::__class_type_info const*, void const*) const(CXXABI_1.3) [1]</code>

Referenced Specification(s)

[1]. Itanium C++ ABI

7.1.12 Class `__cxxabiv1::__vmi_class_type_info`

7.1.12.1 Class data for `__cxxabiv1::__vmi_class_type_info`

The virtual table for the `__cxxabiv1::__vmi_class_type_info` class is described by Table 7-21

Table 7-21 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_ca tch(type_info const*, void**, unsigned int) const</code>
vfunc[5]:	<code>__cxxabiv1::__class_type_info::__do_u pcast(__cxxabiv1::__class_type_info const*, void**) const</code>
vfunc[6]:	<code>__cxxabiv1::__vmi_class_type_info::__ do_upcast(__cxxabiv1::__class_type_in fo const*, void const*, __cxxabiv1::__class_type_info::__upcas t_result&) const</code>
vfunc[7]:	<code>__cxxabiv1::__vmi_class_type_info::__ do_dyncast(int, __cxxabiv1::__class_type_info::__sub_k ind, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__dynca st_result&) const</code>
vfunc[8]:	<code>__cxxabiv1::__vmi_class_type_info::__ do_find_public_src(int, void const*, __cxxabiv1::__class_type_info const*, void const*) const</code>

The Run Time Type Information for the `__cxxabiv1::__vmi_class_type_info` class is described by Table 7-22

Table 7-22 typeid for __cxxabiv1::__vmi_class_type_info

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for __cxxabiv1::__vmi_class_type_info

7.1.12.2 Interfaces for Class __cxxabiv1::__vmi_class_type_info

An LSB conforming implementation shall provide the architecture specific methods for Class __cxxabiv1::__vmi_class_type_info specified in Table 7-23, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-23 libstdc++ - Class __cxxabiv1::__vmi_class_type_info Function Interfaces

__cxxabiv1::__vmi_class_type_info::__do_dynccast(int, __cxxabiv1::__class_type_info::__sub_kind, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info const*, void const*, __cxxabiv1::__class_type_info::__dynccast_result&) const(CXXABI_1.3) [1]
__cxxabiv1::__vmi_class_type_info::__do_find_public_src(int, void const*, __cxxabiv1::__class_type_info const*, void const*) const(CXXABI_1.3) [1]

Referenced Specification(s)

[1]. Itanium C++ ABI

7.1.13 Class __cxxabiv1::__fundamental_type_info**7.1.13.1 Class data for __cxxabiv1::__fundamental_type_info**

The virtual table for the __cxxabiv1::__fundamental_type_info class is described by Table 7-24

Table 7-24 Primary vtable for __cxxabiv1::__fundamental_type_info

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for __cxxabiv1::__fundamental_type_info
vfunc[0]:	__cxxabiv1::__fundamental_type_info:: ~__fundamental_type_info()
vfunc[1]:	__cxxabiv1::__fundamental_type_info:: ~__fundamental_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::__c lass_type_info const*, void**) const

The Run Time Type Information for the `__cxxabiv1::__fundamental_type_info` class is described by Table 7-25

Table 7-25 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>

7.1.13.2 Interfaces for Class `__cxxabiv1::__fundamental_type_info`

No external methods are defined for libstdc++ - Class
`__cxxabiv1::__fundamental_type_info`

7.1.14 Class `__cxxabiv1::__pointer_to_member_type_info`

7.1.14.1 Class data for `__cxxabiv1::__pointer_to_member_type_info`

The virtual table for the `__cxxabiv1::__pointer_to_member_type_info` class is described by Table 7-26

Table 7-26 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 7-27

Table 7-27 typeid for `__cxxabiv1::__pointer_to_member_type_info`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>__cxxabiv1::__pointer_to_member_type_info</code>

7.1.14.2 Interfaces for Class**`__cxxabiv1::__pointer_to_member_type_info`**

No external methods are defined for libstdc++ - Class

`__cxxabiv1::__pointer_to_member_type_info`

7.1.15 Class `__gnu_cxx::stdio_filebuf<char, char_traits<char>>`**7.1.15.1 Class data for `__gnu_cxx::stdio_filebuf<char, char_traits<char>>`**

The virtual table for the `__gnu_cxx::stdio_filebuf<char, std::char_traits<char>>` class is described by Table 7-28

Table 7-28 Primary vtable for `__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for <code>__gnu_cxx::stdio_sync_filebuf<char, char_traits<char>></code>
vfunc[0]:	Unspecified
vfunc[1]:	Unspecified
vfunc[2]:	<code>basic_streambuf<char, char_traits<char>>::imbue(locale const&)</code>
vfunc[3]:	<code>basic_streambuf<char, char_traits<char>>::setbuf(char*, int)</code>
vfunc[4]:	<code>basic_filebuf<char, char_traits<char>>::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</code>
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_streambuf<char, char_traits<char>>::showmanyc()</code>
vfunc[8]:	<code>basic_filebuf<char, char_traits<char>></code>

	>::xsgetn(char*, int)
vfunc[9]:	basic_filebuf<char, char_traits<char>>::underflow()
vfunc[10]:	basic_streambuf<char, char_traits<char>>::uflow()
vfunc[11]:	basic_filebuf<char, char_traits<char>>::pbackfail(int)
vfunc[12]:	basic_filebuf<char, char_traits<char>>::xsputn(char const*, int)
vfunc[13]:	basic_filebuf<char, char_traits<char>>::overflow(int)

7.1.15.2 Interfaces for Class `__gnu_cxx::stdio_filebuf<char, char_traits<char>>`

No external methods are defined for libstdc++ - Class `__gnu_cxx::stdio_filebuf<char, std::char_traits<char>>`

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

7.1.16.1 Class data for `__gnu_cxx::stdio_filebuf<wchar_t, char_traits<wchar_t>>`

The virtual table for the `__gnu_cxx::stdio_filebuf<wchar_t, std::char_traits<wchar_t>>` class is described by Table 7-29

Table 7-29 Primary vtable for `__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for <code>__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	Unspecified
vfunc[1]:	Unspecified
vfunc[2]:	basic_streambuf<wchar_t, char_traits<wchar_t>>::imbue(locale const&)
vfunc[3]:	basic_streambuf<wchar_t, char_traits<wchar_t>>::setbuf(wchar_t*, int)
vfunc[4]:	basic_filebuf<wchar_t, char_traits<wchar_t>>::setbuf(wchar_t*, int)

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_streambuf<wchar_t, char_traits<wchar_t> >::showmanyc()
vfunc[8]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, int)
vfunc[9]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::underflow()
vfunc[10]:	basic_streambuf<char, char_traits<char> >::uflow()
vfunc[11]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::pbackfail(unsigned int)
vfunc[12]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, int)
vfunc[13]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::overflow(unsigned int)

7.1.16.2 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> >`

7.1.17 Class `__gnu_cxx::__pool_alloc_base`

7.1.17.1 Interfaces for Class `__gnu_cxx::__pool_alloc_base`

An LSB conforming implementation shall provide the architecture specific methods for Class `__gnu_cxx::__pool_alloc_base` specified in Table 7-30, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-30 libstdcxx - Class `__gnu_cxx::__pool_alloc_base` Function Interfaces

<code>__gnu_cxx::__pool_alloc_base::_M_get_free_list(unsigned int)(GLIBCXX_3.4.2)</code> [1]
<code>__gnu_cxx::__pool_alloc_base::_M_refill(unsigned int)(GLIBCXX_3.4.2)</code> [1]

Referenced Specification(s)

[1]. this specification

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

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

No external methods are defined for libstdcxx - Class `__gnu_cxx::stdio_sync_filebuf<char, std::char_traits<char> >`

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

7.1.19.1 Interfaces for Class `__gnu_cxx::stdio_sync_filebuf<wchar_t, char_traits<wchar_t> >`

No external methods are defined for libstdcxx - Class `__gnu_cxx::stdio_sync_filebuf<wchar_t, std::char_traits<wchar_t> >`

7.1.20 Class `exception`

7.1.20.1 Class data for `exception`

The virtual table for the `std::exception` class is described by Table 7-31

Table 7-31 Primary vtable for `exception`

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

The Run Time Type Information for the `std::exception` class is described by Table 7-32

Table 7-32 typeinfo for `exception`

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	typeinfo name for <code>exception</code>

7.1.20.2 Interfaces for Class `exception`

No external methods are defined for libstdcxx - Class `std::exception`

7.1.21 Class `bad_typeid`

7.1.21.1 Class data for `bad_typeid`

The virtual table for the `std::bad_typeid` class is described by Table 7-33

Table 7-33 Primary vtable for bad_typeid

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

The Run Time Type Information for the std::bad_typeid class is described by Table 7-34

Table 7-34 typeinfo for bad_typeid

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for bad_typeid

7.1.21.2 Interfaces for Class bad_typeid

No external methods are defined for libstdcxx - Class std::bad_typeid

7.1.22 Class logic_error

7.1.22.1 Class data for logic_error

The virtual table for the std::logic_error class is described by Table 7-35

Table 7-35 Primary vtable for logic_error

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

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

Table 7-36 typeinfo for logic_error

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for logic_error

7.1.22.2 Interfaces for Class logic_error

No external methods are defined for libstdcxx - Class std::logic_error

7.1.23 Class range_error

7.1.23.1 Class data for range_error

The virtual table for the `std::range_error` class is described by Table 7-37

Table 7-37 Primary vtable for range_error

Base Offset	0
Virtual Base Offset	0
RTTI	typeid 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 7-38

Table 7-38 typeid for range_error

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for range_error

7.1.23.2 Interfaces for Class range_error

No external methods are defined for `libstdc++` - Class `std::range_error`

7.1.24 Class domain_error

7.1.24.1 Class data for domain_error

The virtual table for the `std::domain_error` class is described by Table 7-39

Table 7-39 Primary vtable for domain_error

Base Offset	0
Virtual Base Offset	0
RTTI	typeid 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 7-40

Table 7-40 typeid for domain_error

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
-------------	--

Name	typeid name for domain_error
------	------------------------------

7.1.24.2 Interfaces for Class domain_error

No external methods are defined for libstdc++ - Class std::domain_error

7.1.25 Class length_error

7.1.25.1 Class data for length_error

The virtual table for the std::length_error class is described by Table 7-41

Table 7-41 Primary vtable for length_error

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for length_error
vfunc[0]:	length_error::~~length_error()
vfunc[1]:	length_error::~~length_error()
vfunc[2]:	logic_error::what() const

The Run Time Type Information for the std::length_error class is described by Table 7-42

Table 7-42 typeid for length_error

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for length_error

7.1.25.2 Interfaces for Class length_error

No external methods are defined for libstdc++ - Class std::length_error

7.1.26 Class out_of_range

7.1.26.1 Class data for out_of_range

The virtual table for the std::out_of_range class is described by Table 7-43

Table 7-43 Primary vtable for out_of_range

Base Offset	0
Virtual Base Offset	0
RTTI	typeid 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 7-44

Table 7-44 typeinfo for `out_of_range`

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

7.1.26.2 Interfaces for Class `out_of_range`

No external methods are defined for `libstdc++` - Class `std::out_of_range`

7.1.27 Class `bad_exception`

7.1.27.1 Class data for `bad_exception`

The virtual table for the `std::bad_exception` class is described by Table 7-45

Table 7-45 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 7-46

Table 7-46 typeinfo for `bad_exception`

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

7.1.27.2 Interfaces for Class `bad_exception`

No external methods are defined for `libstdc++` - Class `std::bad_exception`

7.1.28 Class `runtime_error`

7.1.28.1 Class data for `runtime_error`

The virtual table for the `std::runtime_error` class is described by Table 7-47

Table 7-47 Primary vtable for `runtime_error`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>runtime_error</code>

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 7-48

Table 7-48 typeinfo for runtime_error

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

7.1.28.2 Interfaces for Class runtime_error

No external methods are defined for libstdc++ - Class std::runtime_error

7.1.29 Class overflow_error

7.1.29.1 Class data for overflow_error

The virtual table for the std::overflow_error class is described by Table 7-49

Table 7-49 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 7-50

Table 7-50 typeinfo for overflow_error

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

7.1.29.2 Interfaces for Class overflow_error

No external methods are defined for libstdc++ - Class std::overflow_error

7.1.30 Class underflow_error

7.1.30.1 Class data for underflow_error

The virtual table for the std::underflow_error class is described by Table 7-51

Table 7-51 Primary vtable for underflow_error

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

The Run Time Type Information for the `std::underflow_error` class is described by Table 7-52

Table 7-52 typeinfo for underflow_error

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

7.1.30.2 Interfaces for Class `underflow_error`

No external methods are defined for `libstdcxx` - Class `std::underflow_error`

7.1.31 Class `invalid_argument`

7.1.31.1 Class data for `invalid_argument`

The virtual table for the `std::invalid_argument` class is described by Table 7-53

Table 7-53 Primary vtable for invalid_argument

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

The Run Time Type Information for the `std::invalid_argument` class is described by Table 7-54

Table 7-54 typeinfo for invalid_argument

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

7.1.31.2 Interfaces for Class `invalid_argument`

No external methods are defined for `libstdc++` - Class `std::invalid_argument`

7.1.32 Class `bad_cast`

7.1.32.1 Class data for `bad_cast`

The virtual table for the `std::bad_cast` class is described by Table 7-55

Table 7-55 Primary vtable for `bad_cast`

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

The Run Time Type Information for the `std::bad_cast` class is described by Table 7-56

Table 7-56 typeinfo for `bad_cast`

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

7.1.32.2 Interfaces for Class `bad_cast`

No external methods are defined for `libstdc++` - Class `std::bad_cast`

7.1.33 Class `bad_alloc`

7.1.33.1 Class data for `bad_alloc`

The virtual table for the `std::bad_alloc` class is described by Table 7-57

Table 7-57 Primary vtable for `bad_alloc`

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

The Run Time Type Information for the `std::bad_alloc` class is described by Table 7-58

Table 7-58 typeid for bad_alloc

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for bad_alloc

7.1.33.2 Interfaces for Class bad_alloc

No external methods are defined for libstdc++ - Class std::bad_alloc

7.1.34 struct __numeric_limits_base**7.1.34.1 Interfaces for struct __numeric_limits_base**

No external methods are defined for libstdc++ - struct __numeric_limits_base

7.1.35 struct numeric_limits<long double>**7.1.35.1 Interfaces for struct numeric_limits<long double>**

No external methods are defined for libstdc++ - struct numeric_limits<long double>

7.1.36 struct numeric_limits<long long>**7.1.36.1 Interfaces for struct numeric_limits<long long>**

No external methods are defined for libstdc++ - struct numeric_limits<long long>

7.1.37 struct numeric_limits<unsigned long long>**7.1.37.1 Interfaces for struct numeric_limits<unsigned long long>**

No external methods are defined for libstdc++ - struct numeric_limits<unsigned long long>

7.1.38 struct numeric_limits<float>**7.1.38.1 Interfaces for struct numeric_limits<float>**

No external methods are defined for libstdc++ - struct numeric_limits<float>

7.1.39 struct numeric_limits<double>**7.1.39.1 Interfaces for struct numeric_limits<double>**

No external methods are defined for libstdc++ - struct numeric_limits<double>

7.1.40 struct numeric_limits<short>**7.1.40.1 Interfaces for struct numeric_limits<short>**

No external methods are defined for libstdc++ - struct numeric_limits<short>

7.1.41 struct numeric_limits<unsigned short>**7.1.41.1 Interfaces for struct numeric_limits<unsigned short>**

No external methods are defined for libstdc++ - struct numeric_limits<unsigned short>

7.1.42 struct numeric_limits<int>**7.1.42.1 Interfaces for struct numeric_limits<int>**

No external methods are defined for libstdcxx - struct numeric_limits<int>

7.1.43 struct numeric_limits<unsigned int>**7.1.43.1 Interfaces for struct numeric_limits<unsigned int>**

No external methods are defined for libstdcxx - struct numeric_limits<unsigned int>

7.1.44 struct numeric_limits<long>**7.1.44.1 Interfaces for struct numeric_limits<long>**

No external methods are defined for libstdcxx - struct numeric_limits<long>

7.1.45 struct numeric_limits<unsigned long>**7.1.45.1 Interfaces for struct numeric_limits<unsigned long>**

No external methods are defined for libstdcxx - struct numeric_limits<unsigned long>

7.1.46 struct numeric_limits<wchar_t>**7.1.46.1 Interfaces for struct numeric_limits<wchar_t>**

No external methods are defined for libstdcxx - struct numeric_limits<wchar_t>

7.1.47 struct numeric_limits<unsigned char>**7.1.47.1 Interfaces for struct numeric_limits<unsigned char>**

No external methods are defined for libstdcxx - struct numeric_limits<unsigned char>

7.1.48 struct numeric_limits<signed char>**7.1.48.1 Interfaces for struct numeric_limits<signed char>**

No external methods are defined for libstdcxx - struct numeric_limits<signed char>

7.1.49 struct numeric_limits<char>**7.1.49.1 Interfaces for struct numeric_limits<char>**

No external methods are defined for libstdcxx - struct numeric_limits<char>

7.1.50 struct numeric_limits<bool>**7.1.50.1 Interfaces for struct numeric_limits<bool>**

No external methods are defined for libstdcxx - struct numeric_limits<bool>

7.1.51 Class `ctype_base`

7.1.51.1 Class data for `ctype_base`

The Run Time Type Information for the `std::ctype_base` class is described by Table 7-59

Table 7-59 `typeinfo` for `ctype_base`

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	<code>typeinfo</code> name for <code>ctype_base</code>

7.1.51.2 Interfaces for Class `ctype_base`

No external methods are defined for `libstdc++` - Class `std::ctype_base`

7.1.52 Class `__ctype_abstract_base<char>`

7.1.52.1 Class data for `__ctype_abstract_base<char>`

The virtual table for the `std::__ctype_abstract_base<char>` class is described by Table 7-60

Table 7-60 Primary vtable for `__ctype_abstract_base<char>`

Base Offset	0
Virtual Base Offset	0
RTTI	<code>typeinfo</code> for <code>__ctype_abstract_base<char></code>
<code>vfunc[0]:</code>	
<code>vfunc[1]:</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>

7.1.52.2 Interfaces for Class `__ctype_abstract_base<char>`

No external methods are defined for libstdcxx - Class
`std::__ctype_abstract_base<char>`

7.1.53 Class `__ctype_abstract_base<wchar_t>`

7.1.53.1 Class data for `__ctype_abstract_base<wchar_t>`

The virtual table for the `std::__ctype_abstract_base<wchar_t>` class is described by Table 7-61

Table 7-61 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>	
<code>vfunc[1]:</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>

7.1.53.2 Interfaces for Class `__ctype_abstract_base<wchar_t>`

No external methods are defined for libstdcxx - Class
`std::__ctype_abstract_base<wchar_t>`

7.1.54 Class `ctype<char>`

7.1.54.1 Class data for `ctype<char>`

The virtual table for the `std::ctype<char>` class is described by Table 7-62

Table 7-62 Primary vtable for `ctype<char>`

Base Offset	0
-------------	---

Virtual Base Offset	0
RTTI	typeid 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

7.1.54.2 Interfaces for Class ctype<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::ctype<char> specified in Table 7-63, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-63 libstdcxx - Class ctype<char> Function Interfaces

ctype<char>::ctype(__locale_struct*, unsigned short const*, bool, unsigned int)(GLIBCXX_3.4) [1]
ctype<char>::ctype(unsigned short const*, bool, unsigned int)(GLIBCXX_3.4) [1]
ctype<char>::ctype(__locale_struct*, unsigned short const*, bool, unsigned int)(GLIBCXX_3.4) [1]
ctype<char>::ctype(unsigned short const*, bool, unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.55 Class ctype<wchar_t>

7.1.55.1 Class data for ctype<wchar_t>

The virtual table for the std::ctype<wchar_t> class is described by Table 7-64

Table 7-64 Primary vtable for ctype<wchar_t>

Base Offset	0
-------------	---

Virtual Base Offset	0
RTTI	typeinfo for ctype<wchar_t>
vfunc[0]:	ctype<wchar_t>::~~ctype()
vfunc[1]:	ctype<wchar_t>::~~ctype()
vfunc[2]:	ctype<wchar_t>::do_is(unsigned short, wchar_t) const
vfunc[3]:	ctype<wchar_t>::do_is(wchar_t const*, wchar_t const*, unsigned short*) const
vfunc[4]:	ctype<wchar_t>::do_scan_is(unsigned short, wchar_t const*, wchar_t const*) const
vfunc[5]:	ctype<wchar_t>::do_scan_not(unsigned short, wchar_t const*, wchar_t const*) const
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 7-65

Table 7-65 typeinfo for ctype<wchar_t>

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

7.1.55.2 Interfaces for Class `ctype<wchar_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::ctype<wchar_t>` specified in Table 7-66, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-66 `libstdcxx` - Class `ctype<wchar_t>` Function Interfaces

<code>ctype<wchar_t>::ctype(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>ctype<wchar_t>::ctype(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>ctype<wchar_t>::ctype(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>ctype<wchar_t>::ctype(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.56 Class `ctype_byname<char>`

7.1.56.1 Class data for `ctype_byname<char>`

The virtual table for the `std::ctype_byname<char>` class is described by Table 7-67

Table 7-67 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>
<code>vfunc[4]:</code>	<code>ctype<char>::do_tolower(char) const</code>
<code>vfunc[5]:</code>	<code>ctype<char>::do_tolower(char*, char const*) const</code>
<code>vfunc[6]:</code>	<code>ctype<char>::do_widen(char) const</code>
<code>vfunc[7]:</code>	<code>ctype<char>::do_widen(char const*, char const*, char*) const</code>
<code>vfunc[8]:</code>	<code>ctype<char>::do_narrow(char, char) const</code>
<code>vfunc[9]:</code>	<code>ctype<char>::do_narrow(char const*, char const*, char, char*) const</code>

The Run Time Type Information for the `std::ctype_byname<char>` class is described by Table 7-68

Table 7-68 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>

7.1.56.2 Interfaces for Class `ctype_byname<char>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::ctype_byname<char>` specified in Table 7-69, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-69 `libstdcxx` - Class `ctype_byname<char>` Function Interfaces

<code>ctype_byname<char>::ctype_byname(char const*, unsigned int)(GLIBCXX_3.4)</code> [1]
<code>ctype_byname<char>::ctype_byname(char const*, unsigned int)(GLIBCXX_3.4)</code> [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.57 Class `ctype_byname<wchar_t>`

7.1.57.1 Interfaces for Class `ctype_byname<wchar_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::ctype_byname<wchar_t>` specified in Table 7-70, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-70 `libstdcxx` - Class `ctype_byname<wchar_t>` Function Interfaces

<code>ctype_byname<wchar_t>::ctype_byname(char const*, unsigned int)(GLIBCXX_3.4)</code> [1]
<code>ctype_byname<wchar_t>::ctype_byname(char const*, unsigned int)(GLIBCXX_3.4)</code> [1]

Referenced Specification(s)

[1]. Itanium C++ ABI

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

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_string<char, std::char_traits<char>, std::allocator<char> >`

specified in Table 7-71, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-71 libstdcxx - Class `basic_string<char, char_traits<char>, allocator<char>>` > Function Interfaces

<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_of(char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_of(char const*, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_of(char, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_of(char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_of(char const*, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_of(char, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_not_of(char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_not_of(char const*, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_not_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_not_of(char, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_not_of(char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_not_of(char const*, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_not_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_not_of(char, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char>>::at(unsigned int) const</code> (GLIBCXX_3.4) [1]

<code>basic_string<char, char_traits<char>, allocator<char> >::copy(char*, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::find(char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::find(char const*, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::find(basic_string<char, char_traits<char>, allocator<char> > const&, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::find(char, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::rfind(char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::rfind(char const*, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::rfind(basic_string<char, char_traits<char>, allocator<char> > const&, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::rfind(char, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::substr(unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::compare(unsigned int, unsigned int, char const*) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::compare(unsigned int, unsigned int, char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::compare(unsigned int, unsigned int, basic_string<char, char_traits<char>, allocator<char> > const&) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::compare(unsigned int, unsigned int, basic_string<char, char_traits<char>, allocator<char> > const&, unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::_M_check(unsigned int, char const*) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::_M_limit(unsigned int, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::operator[](unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::_S_construct(unsigned int, char, allocator<char> const&)</code> (GLIBCXX_3.4) [1]
<code>basic_string<char, char_traits<char>, allocator<char> >::_M_replace_aux(unsigned int, unsigned int, unsigned int, char)</code> (GLIBCXX_3.4)

[1]
<code>basic_string<char, char_traits<char>, allocator<char>>::_M_replace_safe(unsigned int, unsigned int, char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::at(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::_Rep::_M_clone(allocator<char> const&, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::_Rep::_S_create(unsigned int, unsigned int, allocator<char> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::erase(unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::append(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::append(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::append(unsigned int, char)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::assign(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::assign(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::assign(unsigned int, char)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::insert(__gnu_cxx::__normal_iterator<char*, basic_string<char, char_traits<char>, allocator<char>>>, unsigned int, char)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::insert(unsigned int, char const*)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::insert(unsigned int, char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::insert(unsigned int, basic_string<char, char_traits<char>, allocator<char>> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::insert(unsigned int, basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::insert(unsigned int, unsigned int, char)(GLIBCXX_3.4) [1]</code>

<code>basic_string<char, char_traits<char>, allocator<char>>::resize(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::resize(unsigned int, char)(GLIBCXX_3.4) [1]</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>>>, char const*, unsigned int)(GLIBCXX_3.4) [1]</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>>>, unsigned int, char)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::replace(unsigned int, unsigned int, char const*)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::replace(unsigned int, unsigned int, char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::replace(unsigned int, unsigned int, basic_string<char, char_traits<char>, allocator<char>> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::replace(unsigned int, unsigned int, basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::replace(unsigned int, unsigned int, unsigned int, char)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::reserve(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::_M_mutate(unsigned int, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::basic_string(char const*, unsigned int, allocator<char> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::basic_string(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::basic_string(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned int, unsigned int, allocator<char> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::basic_string(unsigned int, char, allocator<char> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::basic_string(char const*, unsigned int, allocator<char> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>></code>

<code>>::basic_string(basic_string<char, char_traits<char>, allocator<char> > const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(basic_string<char, char_traits<char>, allocator<char> > const&, unsigned int, unsigned int, allocator<char> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char> >::basic_string(unsigned int, char, allocator<char> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char> >::operator[] (unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_string<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` specified in Table 7-72, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-72 libstdc++ - 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> >::find_last_of(wchar_t const*, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::find_last_of(wchar_t const*, unsigned int, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::find_last_of(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::find_last_of(wchar_t, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::find_first_of(wchar_t const*, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::find_first_of(wchar_t const*, unsigned int, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::find_first_of(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::find_first_of(wchar_t, unsigned int) const(GLIBCXX_3.4) [1]</code>

[illegible]

<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::substr(unsigned int, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(unsigned int, unsigned int, wchar_t const*) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(unsigned int, unsigned int, wchar_t const*, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(unsigned int, unsigned int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(unsigned int, unsigned int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, unsigned int, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_M_check(unsigned int, char const*) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_M_limit(unsigned int, unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::operator[](unsigned int) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_S_construct(unsigned int, wchar_t, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_M_replace_aux(unsigned int, unsigned int, unsigned int, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_M_replace_safe(unsigned int, unsigned int, wchar_t const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_at(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_M_clone(allocator<wchar_t> const&, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_S_create(unsigned int, unsigned int, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_erase(unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_append(wchar_t const*, unsigned int)(GLIBCXX_3.4) [1]</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&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>

<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::append(unsigned int, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::assign(wchar_t const*, unsigned int)(GLIBCXX_3.4) [1]</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&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::assign(unsigned int, wchar_t)(GLIBCXX_3.4) [1]</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>>>, unsigned int, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::insert(unsigned int, wchar_t const*)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::insert(unsigned int, wchar_t const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::insert(unsigned int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::insert(unsigned int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::insert(unsigned int, unsigned int, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::resize(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::resize(unsigned int, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::replace(__gnu_cxx::__normal_iterator<wchar_t*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>>, __gnu_cxx::__normal_iterator<wchar_t*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>>, wchar_t const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::replace(__gnu_cxx::__normal_iterator<wchar_t*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>>, __gnu_cxx::__normal_iterator<wchar_t*, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>>, unsigned int, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::replace(unsigned int, unsigned int, wchar_t const*)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>></code>

<code>>::replace(unsigned int, unsigned int, wchar_t const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::replace(unsigned int, unsigned int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::replace(unsigned int, unsigned int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::replace(unsigned int, unsigned int, unsigned int, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::reserve(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::M_mutate(unsigned int, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(wchar_t const*, unsigned int, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, unsigned int, unsigned int, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(unsigned int, wchar_t, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(wchar_t const*, unsigned int, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&, unsigned int, unsigned int, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::basic_string(unsigned int, wchar_t, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::operator[](unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.60.1 Class data for `basic_stringstream<char, char_traits<char>, allocator<char> >`

The virtual table for the `std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >` class is described by Table 7-73

Table 7-73 Primary vtable for `basic_stringstream<char, char_traits<char>, allocator<char> >`

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

Table 7-74 Secondary vtable for `basic_stringstream<char, char_traits<char>, allocator<char> >`

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

Table 7-75 Secondary vtable for `basic_stringstream<char, char_traits<char>, allocator<char> >`

Base Offset	-52
Virtual Base Offset	-52
RTTI	typeinfo for <code>basic_stringstream<char, char_traits<char>, allocator<char> ></code>

vfunc[0]:	virtual thunk to basic_stringstream<char, char_traits<char>, allocator<char> >::~basic_stringstream()
vfunc[1]:	virtual thunk to basic_stringstream<char, char_traits<char>, allocator<char> >::~basic_stringstream()

The VTT for the std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> > class is described by Table 7-76

Table 7-76 VTT for basic_stringstream<char, char_traits<char>, allocator<char> >

VTT Name	_ZTTSt18basic_stringstreamIcSt11char_traitsIcESaIcEE
Number of Entries	10

7.1.60.2 Interfaces for Class basic_stringstream<char, char_traits<char>, allocator<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> > specified in Table 7-77, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-77 libstdcxx - Class basic_stringstream<char, char_traits<char>, allocator<char> > Function Interfaces

non-virtual thunk to basic_stringstream<char, char_traits<char>, allocator<char> >::~basic_stringstream()(GLIBCXX_3.4) [1]
non-virtual thunk to basic_stringstream<char, char_traits<char>, allocator<char> >::~basic_stringstream()(GLIBCXX_3.4) [1]
virtual thunk to basic_stringstream<char, char_traits<char>, allocator<char> >::~basic_stringstream()(GLIBCXX_3.4) [1]
virtual thunk to basic_stringstream<char, char_traits<char>, allocator<char> >::~basic_stringstream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.61 Class basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

7.1.61.1 Class data for basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

The virtual table for the std::basic_stringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > class is described by Table 7-78

Table 7-78 Primary vtable for `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

Base Offset	0
Virtual Base Offset	52
RTTI	typeinfo for <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> ></code>
vfunc[0]:	<code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()</code>
vfunc[1]:	<code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()</code>

Table 7-79 Secondary vtable for `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

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

Table 7-80 Secondary vtable for `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

Base Offset	-52
Virtual Base Offset	-52
RTTI	typeinfo for <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> ></code>

vfunc[0]:	virtual thunk to basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()
vfunc[1]:	virtual thunk to basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()

The VTT for the `std::basic_stringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` class is described by Table 7-81

Table 7-81 VTT for `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

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

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_stringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` specified in Table 7-82, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-82 `libstdcxx` - Class `basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >` Function Interfaces

non-virtual thunk to <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()(GLIBCXX_3.4) [1]</code>
non-virtual thunk to <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()(GLIBCXX_3.4) [1]</code>
virtual thunk to <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()(GLIBCXX_3.4) [1]</code>
virtual thunk to <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringstream()(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.62 Class `basic_istream<char, char_traits<char>, allocator<char> >`

7.1.62.1 Class data for `basic_istream<char, char_traits<char>, allocator<char> >`

The virtual table for the `std::basic_istream<char, std::char_traits<char>, std::allocator<char> >` class is described by Table 7-83

Table 7-83 Primary vtable for `basic_istream<char, char_traits<char>, allocator<char> >`

Base Offset	0
Virtual Base Offset	48
RTTI	typeinfo for <code>basic_istream<char, char_traits<char>, allocator<char> ></code>
vfunc[0]:	<code>basic_istream<char, char_traits<char>, allocator<char> >::~~basic_istream()</code>
vfunc[1]:	<code>basic_istream<char, char_traits<char>, allocator<char> >::~~basic_istream()</code>

Table 7-84 Secondary vtable for `basic_istream<char, char_traits<char>, allocator<char> >`

Base Offset	-48
Virtual Base Offset	-48
RTTI	typeinfo for <code>basic_istream<char, char_traits<char>, allocator<char> ></code>
vfunc[0]:	virtual thunk to <code>basic_istream<char, char_traits<char>, allocator<char> >::~~basic_istream()</code>
vfunc[1]:	virtual thunk to <code>basic_istream<char, char_traits<char>, allocator<char> >::~~basic_istream()</code>

The VTT for the `std::basic_istream<char, std::char_traits<char>, std::allocator<char> >` class is described by Table 7-85

Table 7-85 VTT for `basic_istream<char, char_traits<char>, allocator<char> >`

VTT Name	<code>_ZTTSt19basic_istreamIcSt11char_traitsIcESaIcEE</code>
Number of Entries	4

7.1.62.2 Interfaces for Class `basic_istream<char, char_traits<char>, allocator<char>>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_istream<char, std::char_traits<char>, std::allocator<char>>` specified in Table 7-86, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-86 libstdcxx - Class `basic_istream<char, char_traits<char>, allocator<char>>` Function Interfaces

virtual thunk to <code>basic_istream<char, char_traits<char>, allocator<char>>::~basic_istream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_istream<char, char_traits<char>, allocator<char>>::~basic_istream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.63.1 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 by Table 7-87

Table 7-87 Primary vtable for `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

Base Offset	0
Virtual Base Offset	48
RTTI	typeinfo for <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>></code>
vfunc[0]:	<code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~basic_istream()</code>
vfunc[1]:	<code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~basic_istream()</code>

Table 7-88 Secondary vtable for `basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>`

Base Offset	-48
Virtual Base Offset	-48

RTTI	typeinfo for basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >
vfunc[0]:	virtual thunk to basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()
vfunc[1]:	virtual thunk to basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()

The VTT for the std::basic_istream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > class is described by Table 7-89

Table 7-89 VTT for basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

VTT Name	_ZTTSt19basic_istreamIwSt11char_traitsIwESaIwEE
Number of Entries	4

7.1.63.2 Interfaces for Class basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_istream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > specified in Table 7-90, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-90 libstdc++ - Class basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces

virtual thunk to basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()(GLIBCXX_3.4) [1]
virtual thunk to basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.64 Class basic_ostringstream<char, char_traits<char>, allocator<char> >

7.1.64.1 Class data for basic_ostringstream<char, char_traits<char>, allocator<char> >

The virtual table for the std::basic_ostringstream<char, std::char_traits<char>, std::allocator<char> > class is described by Table 7-91

Table 7-91 Primary vtable for `basic_ostringstream<char, char_traits<char>, allocator<char> >`

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

Table 7-92 Secondary vtable for `basic_ostringstream<char, char_traits<char>, allocator<char> >`

Base Offset	-44
Virtual Base Offset	-44
RTTI	typeinfo for <code>basic_ostringstream<char, char_traits<char>, allocator<char> ></code>
vfunc[0]:	virtual thunk to <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::~~basic_ostringstream()</code>
vfunc[1]:	virtual thunk to <code>basic_ostringstream<char, char_traits<char>, allocator<char> >::~~basic_ostringstream()</code>

The VTT for the `std::basic_ostringstream<char, std::char_traits<char>, std::allocator<char> >` class is described by Table 7-93

Table 7-93 VTT for `basic_ostringstream<char, char_traits<char>, allocator<char> >`

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

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_ostringstream<char, std::char_traits<char>, std::allocator<char> >` specified in Table 7-94, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-94 libstdcxx - Class basic_ostringstream<char, char_traits<char>, allocator<char> > Function Interfaces

virtual thunk to basic_ostringstream<char, char_traits<char>, allocator<char> >::~basic_ostringstream()(GLIBCXX_3.4) [1]
virtual thunk to basic_ostringstream<char, char_traits<char>, allocator<char> >::~basic_ostringstream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.65 Class basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

7.1.65.1 Class data for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

The virtual table for the std::basic_ostringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > class is described by Table 7-95

Table 7-95 Primary vtable for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

Base Offset	0
Virtual Base Offset	44
RTTI	typeinfo for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >
vfunc[0]:	basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_ostringstream()
vfunc[1]:	basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_ostringstream()

Table 7-96 Secondary vtable for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

Base Offset	-44
Virtual Base Offset	-44
RTTI	typeinfo for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >
vfunc[0]:	virtual thunk to basic_ostringstream<wchar_t,

	char_traits<wchar_t>, allocator<wchar_t> >::~basic_ostringstream()
vfunc[1]:	virtual thunk to basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_ostringstream()

The VTT for the std::basic_ostringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > class is described by Table 7-97

Table 7-97 VTT for basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

VTT Name	_ZTTSt19basic_ostringstreamIwSt11char_traitsIwESaIwEE
Number of Entries	4

7.1.65.2 Interfaces for Class basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_ostringstream<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > specified in Table 7-98, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-98 libstdcxx - Class basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces

virtual thunk to basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_ostringstream()(GLIBCXX_3.4) [1]
virtual thunk to basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_ostringstream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.66 Class basic_stringbuf<char, char_traits<char>, allocator<char> >

7.1.66.1 Class data for basic_stringbuf<char, char_traits<char>, allocator<char> >

The virtual table for the std::basic_stringbuf<char, std::char_traits<char>, std::allocator<char> > class is described by Table 7-99

Table 7-99 Primary vtable for basic_stringbuf<char, char_traits<char>, allocator<char> >

Base Offset	0
Virtual Base Offset	0

RTTI	typeid for basic_stringbuf<char, char_traits<char>, allocator<char> >
vfunc[0]:	basic_stringbuf<char, char_traits<char>, allocator<char> >::~basic_stringbuf()
vfunc[1]:	basic_stringbuf<char, char_traits<char>, allocator<char> >::~basic_stringbuf()
vfunc[2]:	basic_streambuf<char, char_traits<char> >::imbue(locale const&)
vfunc[3]:	basic_stringbuf<char, char_traits<char>, allocator<char> >::setbuf(char*, int)
vfunc[4]:	basic_stringbuf<char, char_traits<char>, allocator<char> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)
vfunc[5]:	basic_stringbuf<char, char_traits<char>, allocator<char> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)
vfunc[6]:	basic_streambuf<char, char_traits<char> >::sync()
vfunc[7]:	basic_streambuf<char, char_traits<char> >::showmanyc()
vfunc[8]:	basic_streambuf<char, char_traits<char> >::xsgetn(char*, int)
vfunc[9]:	basic_stringbuf<char, char_traits<char>, allocator<char> >::underflow()
vfunc[10]:	basic_streambuf<char, char_traits<char> >::uflow()
vfunc[11]:	basic_stringbuf<char, char_traits<char>, allocator<char> >::pbackfail(int)
vfunc[12]:	basic_streambuf<char, char_traits<char> >::xspn(char const*, int)
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 7-100

Table 7-100 typeid for `basic_stringbuf<char, char_traits<char>, allocator<char> >`

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

7.1.66.2 Interfaces for Class `basic_stringbuf<char, char_traits<char>, allocator<char> >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_stringbuf<char, std::char_traits<char>, std::allocator<char> >` specified in Table 7-101, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-101 libstdc++ - Class `basic_stringbuf<char, char_traits<char>, allocator<char> >` Function Interfaces

<code>basic_stringbuf<char, char_traits<char>, allocator<char> >::setbuf(char*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_stringbuf<char, char_traits<char>, allocator<char> >::M_sync(char*, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_stringbuf<char, char_traits<char>, allocator<char> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.67.1 Class data for `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

The virtual table for the `std::basic_stringbuf<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` class is described by Table 7-102

Table 7-102 Primary vtable for `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

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

	<code>char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringbuf()</code>
<code>vfunc[1]:</code>	<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~basic_stringbuf()</code>
<code>vfunc[2]:</code>	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&)</code>
<code>vfunc[3]:</code>	<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::setbuf(wchar_t*, int)</code>
<code>vfunc[4]:</code>	<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</code>
<code>vfunc[5]:</code>	<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code>
<code>vfunc[6]:</code>	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sync()</code>
<code>vfunc[7]:</code>	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::showmanyc()</code>
<code>vfunc[8]:</code>	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, int)</code>
<code>vfunc[9]:</code>	<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::underflow()</code>
<code>vfunc[10]:</code>	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::uflow()</code>
<code>vfunc[11]:</code>	<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::pbackfail(unsigned int)</code>
<code>vfunc[12]:</code>	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, int)</code>
<code>vfunc[13]:</code>	<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t></code>

	>::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 7-103

Table 7-103 typeinfo for `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo name for <code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> ></code>

7.1.67.2 Interfaces for Class `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_stringbuf<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> >` specified in Table 7-104, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-104 libstdcxx - Class `basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >` Function Interfaces

<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::setbuf(wchar_t*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::_M_sync(wchar_t*, unsigned int, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.68 Class `basic_iostream<char, char_traits<char> >`

7.1.68.1 Class data for `basic_iostream<char, char_traits<char> >`

The virtual table for the `std::basic_iostream<char, std::char_traits<char> >` class is described by Table 7-105

Table 7-105 Primary vtable for `basic_iostream<char, char_traits<char> >`

Base Offset	0
Virtual Base Offset	12
RTTI	typeinfo for <code>basic_iostream<char, char_traits<char> ></code>
vfunc[0]:	<code>basic_iostream<char, char_traits<char> ></code>

	>::~~basic_istream()
vfunc[1]:	basic_istream<char, char_traits<char>> >::~~basic_istream()

Table 7-106 Secondary vtable for basic_istream<char, char_traits<char>>

Base Offset	-8
Virtual Base Offset	4
RTTI	typeinfo for basic_istream<char, char_traits<char>>
vfunc[0]:	non-virtual thunk to basic_istream<char, char_traits<char>> >::~~basic_istream()
vfunc[1]:	non-virtual thunk to basic_istream<char, char_traits<char>> >::~~basic_istream()

Table 7-107 Secondary vtable for basic_istream<char, char_traits<char>>

Base Offset	-12
Virtual Base Offset	-12
RTTI	typeinfo for basic_istream<char, char_traits<char>>
vfunc[0]:	virtual thunk to basic_istream<char, char_traits<char>> >::~~basic_istream()
vfunc[1]:	virtual thunk to basic_istream<char, char_traits<char>> >::~~basic_istream()

The VTT for the std::basic_istream<char, std::char_traits<char>> class is described by Table 7-108

Table 7-108 VTT for basic_istream<char, char_traits<char>>

VTT Name	_ZTTSd
Number of Entries	7

7.1.68.2 Interfaces for Class basic_istream<char, char_traits<char>>

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

Table 7-109 libstdc++ - Class basic_istream<char, char_traits<char>> Function Interfaces

non-virtual thunk to basic_istream<char, char_traits<char>> >::~~basic_istream()(GLIBCXX_3.4) [1]
--

non-virtual thunk to <code>basic_istream<char, char_traits<char>>::~~basic_istream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_istream<char, char_traits<char>>::~~basic_istream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_istream<char, char_traits<char>>::~~basic_istream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. Itanium C++ ABI

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

7.1.69.1 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 by Table 7-110

Table 7-110 Primary vtable for `basic_istream<wchar_t, char_traits<wchar_t>>`

Base Offset	0
Virtual Base Offset	12
RTTI	typeinfo for <code>basic_istream<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	<code>basic_istream<wchar_t, char_traits<wchar_t>>::~~basic_istream()</code>
vfunc[1]:	<code>basic_istream<wchar_t, char_traits<wchar_t>>::~~basic_istream()</code>

Table 7-111 Secondary vtable for `basic_istream<wchar_t, char_traits<wchar_t>>`

Base Offset	-8
Virtual Base Offset	4
RTTI	typeinfo for <code>basic_istream<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	non-virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t>>::~~basic_istream()</code>
vfunc[1]:	non-virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t>>::~~basic_istream()</code>

Table 7-112 Secondary vtable for `basic_istream<wchar_t, char_traits<wchar_t> >`

Base Offset	-12
Virtual Base Offset	-12
RTTI	typeinfo for <code>basic_istream<wchar_t, char_traits<wchar_t> ></code>
vfunc[0]:	virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code>
vfunc[1]:	virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code>

The VTT for the `std::basic_istream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-113

Table 7-113 VTT for `basic_istream<wchar_t, char_traits<wchar_t> >`

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

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_istream<wchar_t, std::char_traits<wchar_t> >` specified in Table 7-114, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-114 `libstdcxx` - Class `basic_istream<wchar_t, char_traits<wchar_t> >` Function Interfaces

non-virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code> (GLIBCXX_3.4) [1]
non-virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.70.1 Class data for `basic_istream<char, char_traits<char> >`

The virtual table for the `std::basic_istream<char, std::char_traits<char> >` class is described by Table 7-115

Table 7-115 Primary vtable for `basic_istream<char, char_traits<char> >`

Base Offset	0
Virtual Base Offset	8
RTTI	typeinfo for <code>basic_istream<char, char_traits<char> ></code>
vfunc[0]:	<code>basic_istream<char, char_traits<char> >::~~basic_istream()</code>
vfunc[1]:	<code>basic_istream<char, char_traits<char> >::~~basic_istream()</code>

Table 7-116 Secondary vtable for `basic_istream<char, char_traits<char> >`

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

The VTT for the `std::basic_istream<char, std::char_traits<char> >` class is described by Table 7-117

Table 7-117 VTT for `basic_istream<char, char_traits<char> >`

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

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

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

Table 7-118 `libstdcxx` - Class `basic_istream<char, char_traits<char> >` Function Interfaces

<code>basic_istream<char, char_traits<char> >::get(char*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::get(char*, int, char)(GLIBCXX_3.4) [1]</code>

<code>basic_istream<char, char_traits<char> >::read(char*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::seekg(long long, _Ios_Seekdir)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::ignore(int, int)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::getline(char*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::getline(char*, int, char)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::readsomewhat(char*, int)(GLIBCXX_3.4) [1]</code>
virtual thunk to <code>basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4) [2]</code>
virtual thunk to <code>basic_istream<char, char_traits<char> >::~~basic_istream()(GLIBCXX_3.4) [2]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

[2]. Itanium C++ ABI

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

7.1.71.1 Class data for `basic_istream<wchar_t, char_traits<wchar_t> >`

The virtual table for the `std::basic_istream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-119

Table 7-119 Primary vtable for `basic_istream<wchar_t, char_traits<wchar_t> >`

Base Offset	0
Virtual Base Offset	8
RTTI	typeinfo for <code>basic_istream<wchar_t, char_traits<wchar_t> ></code>
<code>vfunc[0]:</code>	<code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code>
<code>vfunc[1]:</code>	<code>basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()</code>

Table 7-120 Secondary vtable for `basic_istream<wchar_t, char_traits<wchar_t> >`

Base Offset	-8
Virtual Base Offset	-8
RTTI	typeinfo for <code>basic_istream<wchar_t, char_traits<wchar_t> ></code>
<code>vfunc[0]:</code>	virtual thunk to <code>basic_istream<wchar_t,</code>

	char_traits<wchar_t> >::~basic_istream()
vfunc[1]:	virtual thunk to basic_istream<wchar_t, char_traits<wchar_t> >::~basic_istream()

The VTT for the std::basic_istream<wchar_t, std::char_traits<wchar_t> > class is described by Table 7-121

Table 7-121 VTT for basic_istream<wchar_t, char_traits<wchar_t> >

VTT Name	_ZTTSt13basic_istreamIwSt11char_traitsIwEE
Number of Entries	2

7.1.71.2 Interfaces for Class basic_istream<wchar_t, char_traits<wchar_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_istream<wchar_t, std::char_traits<wchar_t> > specified in Table 7-122, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-122 libstdcxx - Class basic_istream<wchar_t, char_traits<wchar_t> > Function Interfaces

basic_istream<wchar_t, char_traits<wchar_t> >::get(wchar_t*, int)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::get(wchar_t*, int, wchar_t)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::read(wchar_t*, int)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::ignore(int, unsigned int)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::getline(wchar_t*, int)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::getline(wchar_t*, int, wchar_t)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::readsome(wchar_t*, int)(GLIBCXX_3.4) [1]
virtual thunk to basic_istream<wchar_t, char_traits<wchar_t> >::~basic_istream()(GLIBCXX_3.4) [1]
virtual thunk to basic_istream<wchar_t, char_traits<wchar_t> >::~basic_istream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.72 Class `istreambuf_iterator<wchar_t, char_traits<wchar_t>>`**7.1.72.1 Interfaces for Class `istreambuf_iterator<wchar_t, char_traits<wchar_t>>`**

No external methods are defined for `libstdcxx` - Class
`std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t>>`

7.1.73 Class `istreambuf_iterator<char, char_traits<char>>`**7.1.73.1 Interfaces for Class `istreambuf_iterator<char, char_traits<char>>`**

No external methods are defined for `libstdcxx` - Class `std::istreambuf_iterator<char, std::char_traits<char>>`

7.1.74 Class `basic_ostream<char, char_traits<char>>`**7.1.74.1 Class data for `basic_ostream<char, char_traits<char>>`**

The virtual table for the `std::basic_ostream<char, std::char_traits<char>>` class is described by Table 7-123

Table 7-123 Primary vtable for `basic_ostream<char, char_traits<char>>`

Base Offset	0
Virtual Base Offset	4
RTTI	typeinfo for <code>basic_ostream<char, char_traits<char>></code>
<code>vfunc[0]:</code>	<code>basic_ostream<char, char_traits<char>>::~~basic_ostream()</code>
<code>vfunc[1]:</code>	<code>basic_ostream<char, char_traits<char>>::~~basic_ostream()</code>

Table 7-124 Secondary vtable for `basic_ostream<char, char_traits<char>>`

Base Offset	-4
Virtual Base Offset	-4
RTTI	typeinfo for <code>basic_ostream<char, char_traits<char>></code>
<code>vfunc[0]:</code>	virtual thunk to <code>basic_ostream<char, char_traits<char>>::~~basic_ostream()</code>
<code>vfunc[1]:</code>	virtual thunk to <code>basic_ostream<char, char_traits<char>>::~~basic_ostream()</code>

The VTT for the `std::basic_ostream<char, std::char_traits<char>>` class is described by Table 7-125

Table 7-125 VTT for `basic_ostream<char, char_traits<char>>`

VTT Name	<code>_ZTTS0</code>
----------	---------------------

Number of Entries	2
-------------------	---

7.1.74.2 Interfaces for Class `basic_ostream<char, char_traits<char> >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_ostream<char, std::char_traits<char> >` specified in Table 7-126, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-126 libstdcxx - Class `basic_ostream<char, char_traits<char> >` Function Interfaces

<code>basic_ostream<char, char_traits<char> >::seekp(long long, _ios_Seekdir)(GLIBCXX_3.4) [1]</code>
<code>basic_ostream<char, char_traits<char> >::write(char const*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_ostream<char, char_traits<char> >::_M_write(char const*, int)(GLIBCXX_3.4) [1]</code>
virtual thunk to <code>basic_ostream<char, char_traits<char> >::~basic_ostream()(GLIBCXX_3.4) [2]</code>
virtual thunk to <code>basic_ostream<char, char_traits<char> >::~basic_ostream()(GLIBCXX_3.4) [2]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

[2]. Itanium C++ ABI

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

7.1.75.1 Class data for `basic_ostream<wchar_t, char_traits<wchar_t> >`

The virtual table for the `std::basic_ostream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-127

Table 7-127 Primary vtable for `basic_ostream<wchar_t, char_traits<wchar_t> >`

Base Offset	0
Virtual Base Offset	4
RTTI	<code>typeid(basic_ostream<wchar_t, char_traits<wchar_t> >)</code>
<code>vfunc[0]:</code>	<code>basic_ostream<wchar_t, char_traits<wchar_t> >::~basic_ostream()</code>
<code>vfunc[1]:</code>	<code>basic_ostream<wchar_t, char_traits<wchar_t> >::~basic_ostream()</code>

Table 7-128 Secondary vtable for `basic_ostream<wchar_t, char_traits<wchar_t>>`

Base Offset	-4
Virtual Base Offset	-4
RTTI	typeinfo for <code>basic_ostream<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	virtual thunk to <code>basic_ostream<wchar_t, char_traits<wchar_t>>::~~basic_ostream()</code>
vfunc[1]:	virtual thunk to <code>basic_ostream<wchar_t, char_traits<wchar_t>>::~~basic_ostream()</code>

The VTT for the `std::basic_ostream<wchar_t, std::char_traits<wchar_t>>` class is described by Table 7-129

Table 7-129 VTT for `basic_ostream<wchar_t, char_traits<wchar_t>>`

VTT Name	<code>_ZTTSt13basic_ostreamlwSt11char_traitslwEE</code>
Number of Entries	2

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_ostream<wchar_t, std::char_traits<wchar_t>>` specified in Table 7-130, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-130 `libstdcxx` - Class `basic_ostream<wchar_t, char_traits<wchar_t>>` Function Interfaces

<code>basic_ostream<wchar_t, char_traits<wchar_t>>::write(wchar_t const*, int)(GLIBCXX_3.4) [1]</code>
virtual thunk to <code>basic_ostream<wchar_t, char_traits<wchar_t>>::~~basic_ostream()(GLIBCXX_3.4) [1]</code>
virtual thunk to <code>basic_ostream<wchar_t, char_traits<wchar_t>>::~~basic_ostream()(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.76.1 Class data for `basic_fstream<char, char_traits<char>>`

The virtual table for the `std::basic_fstream<char, std::char_traits<char>>` class is described by Table 7-131

Table 7-131 Primary vtable for basic_fstream<char, char_traits<char> >

Base Offset	0
Virtual Base Offset	148
RTTI	typeinfo for basic_fstream<char, char_traits<char> >
vfunc[0]:	basic_fstream<char, char_traits<char> >::~~basic_fstream()
vfunc[1]:	basic_fstream<char, char_traits<char> >::~~basic_fstream()

Table 7-132 Secondary vtable for basic_fstream<char, char_traits<char> >

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

Table 7-133 Secondary vtable for basic_fstream<char, char_traits<char> >

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

The VTT for the std::basic_fstream<char, std::char_traits<char> > class is described by Table 7-134

Table 7-134 VTT for basic_fstream<char, char_traits<char> >

VTT Name	_ZTTSt13basic_fstreamIcSt11char_traitsIcEE
Number of Entries	10

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_fstream<char, std::char_traits<char> >` specified in Table 7-135, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-135 libstdcxx - Class `basic_fstream<char, char_traits<char> >` Function Interfaces

non-virtual thunk to <code>basic_fstream<char, char_traits<char> >::~basic_fstream()</code> (GLIBCXX_3.4) [1]
non-virtual thunk to <code>basic_fstream<char, char_traits<char> >::~basic_fstream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_fstream<char, char_traits<char> >::~basic_fstream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_fstream<char, char_traits<char> >::~basic_fstream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.77.1 Class data for `basic_fstream<wchar_t, char_traits<wchar_t> >`

The virtual table for the `std::basic_fstream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-136

Table 7-136 Primary vtable for `basic_fstream<wchar_t, char_traits<wchar_t> >`

Base Offset	0
Virtual Base Offset	152
RTTI	typeinfo for <code>basic_fstream<wchar_t, char_traits<wchar_t> ></code>
vfunc[0]:	<code>basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()</code>
vfunc[1]:	<code>basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()</code>

Table 7-137 Secondary vtable for `basic_fstream<wchar_t, char_traits<wchar_t> >`

Base Offset	-8
Virtual Base Offset	144
RTTI	typeinfo for <code>basic_fstream<wchar_t, char_traits<wchar_t> ></code>
vfunc[0]:	non-virtual thunk to

	basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()
vfunc[1]:	non-virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()

Table 7-138 Secondary vtable for basic_fstream<wchar_t, char_traits<wchar_t> >

Base Offset	-152
Virtual Base Offset	-152
RTTI	typeinfo for basic_fstream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()
vfunc[1]:	virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()

The VTT for the std::basic_fstream<wchar_t, std::char_traits<wchar_t> > class is described by Table 7-139

Table 7-139 VTT for basic_fstream<wchar_t, char_traits<wchar_t> >

VTT Name	_ZTTSt13basic_fstreamIwSt11char_traitsIwEE
Number of Entries	10

7.1.77.2 Interfaces for Class basic_fstream<wchar_t, char_traits<wchar_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_fstream<wchar_t, std::char_traits<wchar_t> > specified in Table 7-140, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-140 libstdcxx - Class basic_fstream<wchar_t, char_traits<wchar_t> > Function Interfaces

non-virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()(GLIBCXX_3.4) [1]
non-virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()(GLIBCXX_3.4) [1]
virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()(GLIBCXX_3.4) [1]

virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t>
>::~basic_fstream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.78 Class basic_ifstream<char, char_traits<char> >

7.1.78.1 Class data for basic_ifstream<char, char_traits<char> >

The virtual table for the std::basic_ifstream<char, std::char_traits<char> > class is described by Table 7-141

Table 7-141 Primary vtable for basic_ifstream<char, char_traits<char> >

Base Offset	0
Virtual Base Offset	144
RTTI	typeinfo for basic_ifstream<char, char_traits<char> >
vfunc[0]:	basic_ifstream<char, char_traits<char> >::~basic_ifstream()
vfunc[1]:	basic_ifstream<char, char_traits<char> >::~basic_ifstream()

Table 7-142 Secondary vtable for basic_ifstream<char, char_traits<char> >

Base Offset	-144
Virtual Base Offset	-144
RTTI	typeinfo for basic_ifstream<char, char_traits<char> >
vfunc[0]:	virtual thunk to basic_ifstream<char, char_traits<char> >::~basic_ifstream()
vfunc[1]:	virtual thunk to basic_ifstream<char, char_traits<char> >::~basic_ifstream()

The VTT for the std::basic_ifstream<char, std::char_traits<char> > class is described by Table 7-143

Table 7-143 VTT for basic_ifstream<char, char_traits<char> >

VTT Name	_ZTTSt14basic_ifstreamIcSt11char_traitsIcEE
Number of Entries	4

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

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_ifstream<char, std::char_traits<char> > specified in Table 7-144,

with the full mandatory functionality as described in the referenced underlying specification.

Table 7-144 libstdc++ - Class `basic_ifstream<char, char_traits<char>>` > Function Interfaces

virtual thunk to <code>basic_ifstream<char, char_traits<char>></code> >::~ <code>basic_ifstream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_ifstream<char, char_traits<char>></code> >::~ <code>basic_ifstream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.79.1 Class data for `basic_ifstream<wchar_t, char_traits<wchar_t>>`

The virtual table for the `std::basic_ifstream<wchar_t, std::char_traits<wchar_t>>` class is described by Table 7-145

Table 7-145 Primary vtable for `basic_ifstream<wchar_t, char_traits<wchar_t>>`

Base Offset	0
Virtual Base Offset	148
RTTI	typeid for <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	<code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> >::~ <code>basic_ifstream()</code>
vfunc[1]:	<code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> >::~ <code>basic_ifstream()</code>

Table 7-146 Secondary vtable for `basic_ifstream<wchar_t, char_traits<wchar_t>>`

Base Offset	-148
Virtual Base Offset	-148
RTTI	typeid for <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	virtual thunk to <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> >::~ <code>basic_ifstream()</code>
vfunc[1]:	virtual thunk to <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> >::~ <code>basic_ifstream()</code>

The VTT for the `std::basic_ifstream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-147

Table 7-147 VTT for `basic_ifstream<wchar_t, char_traits<wchar_t> >`

VTT Name	<code>_ZTTSt14basic_ifstreamIwSt11char_traitsIwEE</code>
Number of Entries	4

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

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_ifstream<wchar_t, std::char_traits<wchar_t> >` specified in Table 7-148, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-148 `libstdc++` - Class `basic_ifstream<wchar_t, char_traits<wchar_t> >` Function Interfaces

virtual thunk to <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::~basic_ifstream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_ifstream<wchar_t, char_traits<wchar_t> >::~basic_ifstream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.80.1 Class data for `basic_ofstream<char, char_traits<char> >`

The virtual table for the `std::basic_ofstream<char, std::char_traits<char> >` class is described by Table 7-149

Table 7-149 Primary vtable for `basic_ofstream<char, char_traits<char> >`

Base Offset	0
Virtual Base Offset	140
RTTI	<code>typeinfo</code> for <code>basic_ofstream<char, char_traits<char> ></code>
<code>vfunc[0]:</code>	<code>basic_ofstream<char, char_traits<char> >::~basic_ofstream()</code>
<code>vfunc[1]:</code>	<code>basic_ofstream<char, char_traits<char> >::~basic_ofstream()</code>

Table 7-150 Secondary vtable for `basic_ofstream<char, char_traits<char> >`

Base Offset	-140
Virtual Base Offset	-140

RTTI	typeinfo for basic_ofstream<char, char_traits<char> >
vfunc[0]:	virtual thunk to basic_ofstream<char, char_traits<char> >::~~basic_ofstream()
vfunc[1]:	virtual thunk to basic_ofstream<char, char_traits<char> >::~~basic_ofstream()

The VTT for the std::basic_ofstream<char, std::char_traits<char> > class is described by Table 7-151

Table 7-151 VTT for basic_ofstream<char, char_traits<char> >

VTT Name	_ZTTSt14basic_ofstreamIcSt11char_traitsIcEE
Number of Entries	4

7.1.80.2 Interfaces for Class basic_ofstream<char, char_traits<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_ofstream<char, std::char_traits<char> > specified in Table 7-152, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-152 libstdcxx - Class basic_ofstream<char, char_traits<char> > Function Interfaces

virtual thunk to basic_ofstream<char, char_traits<char> >::~~basic_ofstream()(GLIBCXX_3.4) [1]
virtual thunk to basic_ofstream<char, char_traits<char> >::~~basic_ofstream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.81 Class basic_ofstream<wchar_t, char_traits<wchar_t> >

7.1.81.1 Class data for basic_ofstream<wchar_t, char_traits<wchar_t> >

The virtual table for the std::basic_ofstream<wchar_t, std::char_traits<wchar_t> > class is described by Table 7-153

Table 7-153 Primary vtable for basic_ofstream<wchar_t, char_traits<wchar_t> >

Base Offset	0
Virtual Base Offset	144
RTTI	typeinfo for basic_ofstream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	basic_ofstream<wchar_t, char_traits<wchar_t>

	>::~~basic_ofstream()
vfunc[1]:	basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()

Table 7-154 Secondary vtable for basic_ofstream<wchar_t, char_traits<wchar_t> >

Base Offset	-144
Virtual Base Offset	-144
RTTI	typeinfo for basic_ofstream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	virtual thunk to basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()
vfunc[1]:	virtual thunk to basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()

The VTT for the std::basic_ofstream<wchar_t, std::char_traits<wchar_t> > class is described by Table 7-155

Table 7-155 VTT for basic_ofstream<wchar_t, char_traits<wchar_t> >

VTT Name	_ZTTSt14basic_ofstreamIwSt11char_traitsIwEE
Number of Entries	4

7.1.81.2 Interfaces for Class basic_ofstream<wchar_t, char_traits<wchar_t> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_ofstream<wchar_t, std::char_traits<wchar_t> > specified in Table 7-156, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-156 libstdcxx - Class basic_ofstream<wchar_t, char_traits<wchar_t> > Function Interfaces

virtual thunk to basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()(GLIBCXX_3.4) [1]
virtual thunk to basic_ofstream<wchar_t, char_traits<wchar_t> >::~~basic_ofstream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

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

7.1.82.1 Class data for `basic_streambuf<char, char_traits<char> >`

The virtual table for the `std::basic_streambuf<char, std::char_traits<char> >` class is described by Table 7-157

Table 7-157 Primary vtable for `basic_streambuf<char, char_traits<char> >`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>basic_streambuf<char, char_traits<char> ></code>
<code>vfunc[0]:</code>	<code>basic_streambuf<char, char_traits<char> >::~~basic_streambuf()</code>
<code>vfunc[1]:</code>	<code>basic_streambuf<char, char_traits<char> >::~~basic_streambuf()</code>
<code>vfunc[2]:</code>	<code>basic_streambuf<char, char_traits<char> >::imbue(locale const&)</code>
<code>vfunc[3]:</code>	<code>basic_streambuf<char, char_traits<char> >::setbuf(char*, int)</code>
<code>vfunc[4]:</code>	<code>basic_streambuf<char, char_traits<char> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</code>
<code>vfunc[5]:</code>	<code>basic_streambuf<char, char_traits<char> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code>
<code>vfunc[6]:</code>	<code>basic_streambuf<char, char_traits<char> >::sync()</code>
<code>vfunc[7]:</code>	<code>basic_streambuf<char, char_traits<char> >::showmanyc()</code>
<code>vfunc[8]:</code>	<code>basic_streambuf<char, char_traits<char> >::xsgetn(char*, int)</code>
<code>vfunc[9]:</code>	<code>basic_streambuf<char, char_traits<char> >::underflow()</code>
<code>vfunc[10]:</code>	<code>basic_streambuf<char, char_traits<char> >::uflow()</code>
<code>vfunc[11]:</code>	<code>basic_streambuf<char, char_traits<char> >::pbackfail(int)</code>
<code>vfunc[12]:</code>	<code>basic_streambuf<char, char_traits<char> >::xspn(char</code>

	const*, int)
vfunc[13]:	basic_streambuf<char, char_traits<char> >::overflow(int)

The Run Time Type Information for the std::basic_streambuf<char, std::char_traits<char> > class is described by Table 7-158

Table 7-158 typeid for basic_streambuf<char, char_traits<char> >

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

7.1.82.2 Interfaces for Class basic_streambuf<char, char_traits<char> >

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_streambuf<char, std::char_traits<char> > specified in Table 7-159, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-159 libstdc++ - Class basic_streambuf<char, char_traits<char> > Function Interfaces

basic_streambuf<char, char_traits<char> >::pubseekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::sgetn(char*, int)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::sputn(char const*, int)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::setbuf(char*, int)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::xsgetn(char*, int)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::xspn(char const*, int)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::pubsetbuf(char*, int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.83 Class basic_streambuf<wchar_t, char_traits<wchar_t> >**7.1.83.1 Class data for basic_streambuf<wchar_t, char_traits<wchar_t> >**

The virtual table for the `std::basic_streambuf<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-160

Table 7-160 Primary vtable for basic_streambuf<wchar_t, char_traits<wchar_t> >

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for basic_streambuf<wchar_t, char_traits<wchar_t> >
vfunc[0]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::~~basic_streambuf()
vfunc[1]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::~~basic_streambuf()
vfunc[2]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&)
vfunc[3]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::setbuf(wchar_t*, int)
vfunc[4]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)
vfunc[5]:	basic_streambuf<wchar_t, char_traits<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]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, int)
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]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, int)
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 7-161

Table 7-161 typeinfo for `basic_streambuf<wchar_t, char_traits<wchar_t> >`

Base Vtable	vtable for __cxxabiv1::__class_type_info
Name	typeinfo name for basic_streambuf<wchar_t, char_traits<wchar_t> >

7.1.83.2 Interfaces for Class `basic_streambuf<wchar_t, char_traits<wchar_t> >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_streambuf<wchar_t, std::char_traits<wchar_t> >` specified in Table 7-162, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-162 libstdc++ - Class `basic_streambuf<wchar_t, char_traits<wchar_t> >` Function Interfaces

<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::pubseekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]</code>
<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sgetn(wchar_t*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sputn(wchar_t const*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::setbuf(wchar_t*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]</code>
<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::pubsetbuf(wchar_t*, int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.84 Class `basic_filebuf<char, char_traits<char> >`

7.1.84.1 Class data for `basic_filebuf<char, char_traits<char> >`

The virtual table for the `std::basic_filebuf<char, std::char_traits<char> >` class is described by Table 7-163

Table 7-163 Primary vtable for `basic_filebuf<char, char_traits<char> >`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>basic_filebuf<char, char_traits<char> ></code>
vfunc[0]:	<code>basic_filebuf<char, char_traits<char> >::~~basic_filebuf()</code>
vfunc[1]:	<code>basic_filebuf<char, char_traits<char> >::~~basic_filebuf()</code>
vfunc[2]:	<code>basic_filebuf<char, char_traits<char> >::imbue(locale const&)</code>
vfunc[3]:	<code>basic_filebuf<char, char_traits<char> >::setbuf(char*, int)</code>
vfunc[4]:	<code>basic_filebuf<char, char_traits<char> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</code>
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]:	<code>basic_filebuf<char, char_traits<char> >::xsgetn(char*, int)</code>
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]:	<code>basic_filebuf<char, char_traits<char> >::xsputn(char const*, int)</code>
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 7-164

Table 7-164 typeid for `basic_filebuf<char, char_traits<char> >`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>basic_filebuf<char, char_traits<char> ></code>

7.1.84.2 Interfaces for Class `basic_filebuf<char, char_traits<char> >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_filebuf<char, std::char_traits<char> >` specified in Table 7-165, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-165 libstdc++ - Class `basic_filebuf<char, char_traits<char> >` Function Interfaces

<code>basic_filebuf<char, char_traits<char> >::_M_set_buffer(int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<char, char_traits<char> >::_M_convert_to_external(char*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<char, char_traits<char> >::setbuf(char*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<char, char_traits<char> >::xsgetn(char*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<char, char_traits<char> >::xsputn(char const*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<char, char_traits<char> >::_M_seek(long long, _Ios_Seekdir, __mbstate_t)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<char, char_traits<char> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.85 Class `basic_filebuf<wchar_t, char_traits<wchar_t> >`

7.1.85.1 Class data for `basic_filebuf<wchar_t, char_traits<wchar_t> >`

The virtual table for the `std::basic_filebuf<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-166

Table 7-166 Primary vtable for `basic_filebuf<wchar_t, char_traits<wchar_t> >`

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for <code>basic_filebuf<wchar_t, char_traits<wchar_t> ></code>
vfunc[0]:	<code>basic_filebuf<wchar_t,</code>

	<code>char_traits<wchar_t> >::~basic_filebuf()</code>
<code>vfunc[1]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::~basic_filebuf()</code>
<code>vfunc[2]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&)</code>
<code>vfunc[3]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::setbuf(wchar_t*, int)</code>
<code>vfunc[4]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)</code>
<code>vfunc[5]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code>
<code>vfunc[6]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::sync()</code>
<code>vfunc[7]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::showmanyc()</code>
<code>vfunc[8]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, int)</code>
<code>vfunc[9]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::underflow()</code>
<code>vfunc[10]:</code>	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::uflow()</code>
<code>vfunc[11]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::pbackfail(unsigned int)</code>
<code>vfunc[12]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::xspn(wchar_t const*, int)</code>
<code>vfunc[13]:</code>	<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::overflow(unsigned int)</code>

The Run Time Type Information for the `std::basic_filebuf<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-167

Table 7-167 typeinfo for `basic_filebuf<wchar_t, char_traits<wchar_t> >`

Base Vtable	vtable for
-------------	------------

	<code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo name for <code>basic_filebuf<wchar_t, char_traits<wchar_t> ></code>

7.1.85.2 Interfaces for Class `basic_filebuf<wchar_t, char_traits<wchar_t> >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::basic_filebuf<wchar_t, std::char_traits<wchar_t> >` specified in Table 7-168, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-168 libstdc++ - Class `basic_filebuf<wchar_t, char_traits<wchar_t> >` Function Interfaces

<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_set_buffer(int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_convert_to_external(wchar_t*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::setbuf(wchar_t*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, int)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_seek(long long, _Ios_Seekdir, __mbstate_t)(GLIBCXX_3.4) [1]</code>
<code>basic_filebuf<wchar_t, char_traits<wchar_t> >::seekoff(long long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<wchar_t, char_traits<wchar_t> >::seekg(long long, _Ios_Seekdir)(GLIBCXX_3.4) [1]</code>
<code>basic_ostream<wchar_t, char_traits<wchar_t> >::seekp(long long, _Ios_Seekdir)(GLIBCXX_3.4) [1]</code>
<code>basic_ostream<wchar_t, char_traits<wchar_t> >::_M_write(wchar_t const*, int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.86 Class `ios_base`

7.1.86.1 Class data for `ios_base`

The Run Time Type Information for the `std::ios_base` class is described by Table 7-169

Table 7-169 typeid for ios_base

Base Vtable	vtable for __cxxabiv1::__class_type_info
Name	typeid name for ios_base

7.1.86.2 Interfaces for Class ios_base

No external methods are defined for libstdc++ - Class std::ios_base

7.1.87 Class basic_ios<char, char_traits<char> >**7.1.87.1 Class data for basic_ios<char, char_traits<char> >**

The virtual table for the std::basic_ios<char, std::char_traits<char> > class is described by Table 7-170

Table 7-170 Primary vtable for basic_ios<char, char_traits<char> >

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for basic_ios<char, char_traits<char> >
vfunc[0]:	basic_ios<char, char_traits<char> >::~~basic_ios()
vfunc[1]:	basic_ios<char, char_traits<char> >::~~basic_ios()

7.1.87.2 Interfaces for Class basic_ios<char, char_traits<char> >

No external methods are defined for libstdc++ - Class std::basic_ios<char, std::char_traits<char> >

7.1.88 Class basic_ios<wchar_t, char_traits<wchar_t> >**7.1.88.1 Interfaces for Class basic_ios<wchar_t, char_traits<wchar_t> >**

No external methods are defined for libstdc++ - Class std::basic_ios<wchar_t, std::char_traits<wchar_t> >

7.1.89 Class ios_base::failure**7.1.89.1 Class data for ios_base::failure**

The virtual table for the std::ios_base::failure class is described by Table 7-171

Table 7-171 Primary vtable for ios_base::failure

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for ios_base::failure

vfunc[0]:	ios_base::failure::~~failure()
vfunc[1]:	ios_base::failure::~~failure()
vfunc[2]:	ios_base::failure::what() const

The Run Time Type Information for the std::ios_base::failure class is described by Table 7-172

Table 7-172 typeinfo for ios_base::failure

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for ios_base::failure

7.1.89.2 Interfaces for Class ios_base::failure

No external methods are defined for libstdc++ - Class std::ios_base::failure

7.1.90 Class __timepunct<char>

7.1.90.1 Class data for __timepunct<char>

The virtual table for the std::__timepunct<char> class is described by Table 7-173

Table 7-173 Primary vtable for __timepunct<char>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for __timepunct<char>
vfunc[0]:	__timepunct<char>::~~__timepunct()
vfunc[1]:	__timepunct<char>::~~__timepunct()

The Run Time Type Information for the std::__timepunct<char> class is described by Table 7-174

Table 7-174 typeinfo for __timepunct<char>

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for __timepunct<char>

7.1.90.2 Interfaces for Class __timepunct<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::__timepunct<char> specified in Table 7-175, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-175 libstdc++ - Class __timepunct<char> Function Interfaces

__timepunct<char>::_M_put(char*, unsigned int, char const*, tm const*) const(GLIBCXX_3.4) [1]
__timepunct<char>::_timepunct(__locale_struct*, char const*, unsigned

int)(GLIBCXX_3.4) [1]
__timepunct<char>::__timepunct(__timepunct_cache<char>*, unsigned int)(GLIBCXX_3.4) [1]
__timepunct<char>::__timepunct(unsigned int)(GLIBCXX_3.4) [1]
__timepunct<char>::__timepunct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
__timepunct<char>::__timepunct(__timepunct_cache<char>*, unsigned int)(GLIBCXX_3.4) [1]
__timepunct<char>::__timepunct(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.91 Class `__timepunct<wchar_t>`

7.1.91.1 Class data for `__timepunct<wchar_t>`

The virtual table for the `std::__timepunct<wchar_t>` class is described by Table 7-176

Table 7-176 Primary vtable for `__timepunct<wchar_t>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>__timepunct<wchar_t></code>
vfunc[0]:	<code>__timepunct<wchar_t>::~~__timepunct()</code>
vfunc[1]:	<code>__timepunct<wchar_t>::~~__timepunct()</code>

The Run Time Type Information for the `std::__timepunct<wchar_t>` class is described by Table 7-177

Table 7-177 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>

7.1.91.2 Interfaces for Class `__timepunct<wchar_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::__timepunct<wchar_t>` specified in Table 7-178, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-178 libstdc++ - Class `__timepunct<wchar_t>` Function Interfaces

<code>__timepunct<wchar_t>::__M_put(wchar_t*, unsigned int, wchar_t const*, tm</code>

const*) const(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__timepunct_cache<wchar_t>*, unsigned int)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(unsigned int)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__timepunct_cache<wchar_t>*, unsigned int)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.92 Class messages_base

7.1.92.1 Class data for messages_base

The Run Time Type Information for the std::messages_base class is described by Table 7-179

Table 7-179 typeinfo for messages_base

Base Vtable	vtable for __cxxabiv1::__class_type_info
Name	typeinfo name for messages_base

7.1.92.2 Interfaces for Class messages_base

No external methods are defined for libstdc++ - Class std::messages_base

7.1.93 Class messages<char>

7.1.93.1 Class data for messages<char>

The virtual table for the std::messages<char> class is described by Table 7-180

Table 7-180 Primary vtable for messages<char>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo 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

7.1.93.2 Interfaces for Class messages<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::messages<char> specified in Table 7-181, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-181 libstdcxx - Class messages<char> Function Interfaces

messages<char>::messages(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
messages<char>::messages(unsigned int)(GLIBCXX_3.4) [1]
messages<char>::messages(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
messages<char>::messages(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.94 Class messages<wchar_t>

7.1.94.1 Class data for messages<wchar_t>

The virtual table for the std::messages<wchar_t> class is described by Table 7-182

Table 7-182 Primary vtable for messages<wchar_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for messages<wchar_t>
vfunc[0]:	messages<wchar_t>::~~messages()
vfunc[1]:	messages<wchar_t>::~~messages()
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

7.1.94.2 Interfaces for Class `messages<wchar_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::messages<wchar_t>` specified in Table 7-183, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-183 `libstdcxx` - Class `messages<wchar_t>` Function Interfaces

<code>messages<wchar_t>::messages(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>messages<wchar_t>::messages(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>messages<wchar_t>::messages(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>messages<wchar_t>::messages(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.95 Class `messages_byname<char>`

7.1.95.1 Class data for `messages_byname<char>`

The virtual table for the `std::messages_byname<char>` class is described by Table 7-184

Table 7-184 Primary vtable for `messages_byname<char>`

Base Offset	0
Virtual Base Offset	0
RTTI	<code>typeid for messages_byname<char></code>
<code>vfunc[0]:</code>	<code>messages_byname<char>::~~messages_byname()</code>
<code>vfunc[1]:</code>	<code>messages_byname<char>::~~messages_byname()</code>
<code>vfunc[2]:</code>	<code>messages<char>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const</code>
<code>vfunc[3]:</code>	<code>messages<char>::do_get(int, int, int, basic_string<char, char_traits<char>, allocator<char> > const&) const</code>
<code>vfunc[4]:</code>	<code>messages<char>::do_close(int) const</code>

The Run Time Type Information for the `std::messages_byname<char>` class is described by Table 7-185

Table 7-185 `typeid` for `messages_byname<char>`

Base Vtable	vtable for
-------------	------------

	__cxxabiv1::__si_class_type_info
Name	typeinfo name for messages_byname<char>

7.1.95.2 Interfaces for Class messages_byname<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::messages_byname<char> specified in Table 7-186, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-186 libstdcxx - Class messages_byname<char> Function Interfaces

messages_byname<char>::messages_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]
messages_byname<char>::messages_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.96 Class messages_byname<wchar_t>

7.1.96.1 Class data for messages_byname<wchar_t>

The virtual table for the std::messages_byname<wchar_t> class is described by Table 7-187

Table 7-187 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>::~~messages_byname()
vfunc[1]:	messages_byname<wchar_t>::~~messages_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 7-188

Table 7-188 typeid for `messages_byname<wchar_t>`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>messages_byname<wchar_t></code>

7.1.96.2 Interfaces for Class `messages_byname<wchar_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::messages_byname<wchar_t>` specified in Table 7-189, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-189 libstdc++ - Class `messages_byname<wchar_t>` Function Interfaces

<code>messages_byname<wchar_t>::messages_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>messages_byname<wchar_t>::messages_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.97 Class `numpunct<char>`

7.1.97.1 Class data for `numpunct<char>`

The virtual table for the `std::numpunct<char>` class is described by Table 7-190

Table 7-190 Primary vtable for `numpunct<char>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeid 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() const</code>
<code>vfunc[3]:</code>	<code>numpunct<char>::do_thousands_sep() const</code>
<code>vfunc[4]:</code>	<code>numpunct<char>::do_grouping() const</code>
<code>vfunc[5]:</code>	<code>numpunct<char>::do_truename() const</code>
<code>vfunc[6]:</code>	<code>numpunct<char>::do_falsename() const</code>

The Run Time Type Information for the `std::num_punct<char>` class is described by Table 7-191

Table 7-191 typeinfo for num_punct<char>

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo name for <code>num_punct<char></code>

7.1.97.2 Interfaces for Class `num_punct<char>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::num_punct<char>` specified in Table 7-192, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-192 libstdc++ - Class `num_punct<char>` Function Interfaces

<code>num_punct<char>::num_punct(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>num_punct<char>::num_punct(__num_punct_cache<char>*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>num_punct<char>::num_punct(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>num_punct<char>::num_punct(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>num_punct<char>::num_punct(__num_punct_cache<char>*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>num_punct<char>::num_punct(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.98 Class `num_punct<wchar_t>`

7.1.98.1 Class data for `num_punct<wchar_t>`

The virtual table for the `std::num_punct<wchar_t>` class is described by Table 7-193

Table 7-193 Primary vtable for num_punct<wchar_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>num_punct<wchar_t></code>
<code>vfunc[0]:</code>	<code>num_punct<wchar_t>::~~num_punct()</code>
<code>vfunc[1]:</code>	<code>num_punct<wchar_t>::~~num_punct()</code>
<code>vfunc[2]:</code>	<code>num_punct<wchar_t>::do_decimal_point() const</code>
<code>vfunc[3]:</code>	<code>num_punct<wchar_t>::do_thousands_sep() const</code>
<code>vfunc[4]:</code>	<code>num_punct<wchar_t>::do_grouping()</code>

	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<wchar_t>` class is described by Table 7-194

Table 7-194 typeid for numpunct<wchar_t>

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for numpunct<wchar_t>

7.1.98.2 Interfaces for Class numpunct<wchar_t>

An LSB conforming implementation shall provide the architecture specific methods for Class `std::numpunct<wchar_t>` specified in Table 7-195, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-195 libstdc++ - Class numpunct<wchar_t> Function Interfaces

numpunct<wchar_t>::numpunct(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
numpunct<wchar_t>::numpunct(unsigned int)(GLIBCXX_3.4) [1]
numpunct<wchar_t>::numpunct(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
numpunct<wchar_t>::numpunct(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.99 Class numpunct_byname<char>

7.1.99.1 Class data for numpunct_byname<char>

The virtual table for the `std::numpunct_byname<char>` class is described by Table 7-196

Table 7-196 Primary vtable for numpunct_byname<char>

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for numpunct_byname<char>
vfunc[0]:	numpunct_byname<char>::~~numpunct_byname()
vfunc[1]:	numpunct_byname<char>::~~numpunct

	t_byname()
vfunc[2]:	numpunct<char>::do_decimal_point() const
vfunc[3]:	numpunct<char>::do_thousands_sep() 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 7-197

Table 7-197 typeid for numpunct_byname<char>

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for numpunct_byname<char>

7.1.99.2 Interfaces for Class numpunct_byname<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::numpunct_byname<char> specified in Table 7-198, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-198 libstdc++ - Class numpunct_byname<char> Function Interfaces

numpunct_byname<char>::numpunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]
numpunct_byname<char>::numpunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.100 Class numpunct_byname<wchar_t>

7.1.100.1 Class data for numpunct_byname<wchar_t>

The virtual table for the std::numpunct_byname<wchar_t> class is described by Table 7-199

Table 7-199 Primary vtable for numpunct_byname<wchar_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for numpunct_byname<wchar_t>

vfunc[0]:	numpunct_byname<wchar_t>::~numpunct_byname()
vfunc[1]:	numpunct_byname<wchar_t>::~numpunct_byname()
vfunc[2]:	numpunct<wchar_t>::do_decimal_point() 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 7-200

Table 7-200 typeid for `numpunct_byname<wchar_t>`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>numpunct_byname<wchar_t></code>

7.1.100.2 Interfaces for Class `numpunct_byname<wchar_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::numpunct_byname<wchar_t>` specified in Table 7-201, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-201 libstdc++ - Class `numpunct_byname<wchar_t>` Function Interfaces

<code>numpunct_byname<wchar_t>::numpunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>numpunct_byname<wchar_t>::numpunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.101 Class `__codecvt_abstract_base<char, char, __mbstate_t>`

7.1.101.1 Interfaces for Class `__codecvt_abstract_base<char, char, __mbstate_t>`

No external methods are defined for libstdc++ - Class `std::__codecvt_abstract_base<char, char, __mbstate_t>`

7.1.102 Class `__codecvt_abstract_base<wchar_t, char, __mbstate_t>`

7.1.102.1 Class data for `__codecvt_abstract_base<wchar_t, char, __mbstate_t>`

The virtual table for the `std::__codecvt_abstract_base<wchar_t, char, __mbstate_t>` class is described by Table 7-202

Table 7-202 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>	
<code>vfunc[1]:</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>

7.1.102.2 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>`

7.1.103 Class `codecvt_base`

7.1.103.1 Class data for `codecvt_base`

The Run Time Type Information for the `std::codecvt_base` class is described by Table 7-203

Table 7-203 typeinfo for `codecvt_base`

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	typeinfo name for <code>codecvt_base</code>

7.1.103.2 Interfaces for Class `codecvt_base`

No external methods are defined for `libstdc++` - Class `std::codecvt_base`

7.1.104 Class codecvt<char, char, __mbstate_t>**7.1.104.1 Class data for codecvt<char, char, __mbstate_t>**

The virtual table for the `std::codecvt<char, char, __mbstate_t>` class is described by Table 7-204

Table 7-204 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]:	<code>codecvt<char, char, __mbstate_t>::~~codecvt()</code>
vfunc[1]:	<code>codecvt<char, char, __mbstate_t>::~~codecvt()</code>
vfunc[2]:	<code>codecvt<char, char, __mbstate_t>::do_out(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code>
vfunc[3]:	<code>codecvt<char, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code>
vfunc[4]:	<code>codecvt<char, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code>
vfunc[5]:	<code>codecvt<char, char, __mbstate_t>::do_encoding() const</code>
vfunc[6]:	<code>codecvt<char, char, __mbstate_t>::do_always_noconv() const</code>
vfunc[7]:	<code>codecvt<char, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned int) const</code>
vfunc[8]:	<code>codecvt<char, char, __mbstate_t>::do_max_length() const</code>

The Run Time Type Information for the `std::codecvt<char, char, __mbstate_t>` class is described by Table 7-205

Table 7-205 typeinfo for codecvt<char, char, __mbstate_t>

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

Name	typeinfo name for codecvt<char, char, __mbstate_t>
------	--

7.1.104.2 Class data for `__codecvt_abstract_base<char, char, __mbstate_t>`

The virtual table for the `std::__codecvt_abstract_base<char, char, __mbstate_t>` class is described by Table 7-206

Table 7-206 Primary vtable for `__codecvt_abstract_base<char, char, __mbstate_t>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>__codecvt_abstract_base<char, char, __mbstate_t></code>
vfunc[0]:	
vfunc[1]:	
vfunc[2]:	<code>__cxa_pure_virtual</code>
vfunc[3]:	<code>__cxa_pure_virtual</code>
vfunc[4]:	<code>__cxa_pure_virtual</code>
vfunc[5]:	<code>__cxa_pure_virtual</code>
vfunc[6]:	<code>__cxa_pure_virtual</code>
vfunc[7]:	<code>__cxa_pure_virtual</code>
vfunc[8]:	<code>__cxa_pure_virtual</code>

7.1.104.3 Interfaces for Class `codecvt<char, char, __mbstate_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::codecvt<char, char, __mbstate_t>` specified in Table 7-207, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-207 libstdcxx - Class `codecvt<char, char, __mbstate_t>` Function Interfaces

<code>codecvt<char, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned int) const</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(__locale_struct*, unsigned int)</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(unsigned int)</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(__locale_struct*, unsigned int)</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(unsigned int)</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.105 Class `codecvt<wchar_t, char, __mbstate_t>`

7.1.105.1 Class data for `codecvt<wchar_t, char, __mbstate_t>`

The virtual table for the `std::codecvt<wchar_t, char, __mbstate_t>` class is described by Table 7-208

Table 7-208 Primary vtable for `codecvt<wchar_t, char, __mbstate_t>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>codecvt<wchar_t, char, __mbstate_t></code>
vfunc[0]:	<code>codecvt<wchar_t, char, __mbstate_t>::~~codecvt()</code>
vfunc[1]:	<code>codecvt<wchar_t, char, __mbstate_t>::~~codecvt()</code>
vfunc[2]:	<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>
vfunc[3]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code>
vfunc[4]:	<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>
vfunc[5]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_encoding() const</code>
vfunc[6]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_always_noconv() const</code>
vfunc[7]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned int) const</code>
vfunc[8]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_max_length() const</code>

The Run Time Type Information for the `std::codecvt<wchar_t, char, __mbstate_t>` class is described by Table 7-209

Table 7-209 typeid for codecvt<wchar_t, char, __mbstate_t>

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for codecvt<wchar_t, char, __mbstate_t>

7.1.105.2 Interfaces for Class codecvt<wchar_t, char, __mbstate_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::codecvt<wchar_t, char, __mbstate_t> specified in Table 7-210, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-210 libstdc++ - Class codecvt<wchar_t, char, __mbstate_t> Function Interfaces

codecvt<wchar_t, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned int) const(GLIBCXX_3.4) [1]
codecvt<wchar_t, char, __mbstate_t>::codecvt(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
codecvt<wchar_t, char, __mbstate_t>::codecvt(unsigned int)(GLIBCXX_3.4) [1]
codecvt<wchar_t, char, __mbstate_t>::codecvt(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
codecvt<wchar_t, char, __mbstate_t>::codecvt(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.106 Class codecvt_byname<char, char, __mbstate_t>**7.1.106.1 Class data for codecvt_byname<char, char, __mbstate_t>**

The virtual table for the std::codecvt_byname<char, char, __mbstate_t> class is described by Table 7-211

Table 7-211 Primary vtable for codecvt_byname<char, char, __mbstate_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeid 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*&,</td></tr>

	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]:	codecvt<char, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned int) const
vfunc[8]:	codecvt<char, char, __mbstate_t>::do_max_length() const

The Run Time Type Information for the `std::codecvt_byname<char, char, __mbstate_t>` class is described by Table 7-212

Table 7-212 typeid for `codecvt_byname<char, char, __mbstate_t>`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>codecvt_byname<char, char, __mbstate_t></code>

7.1.106.2 Interfaces for Class `codecvt_byname<char, char, __mbstate_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::codecvt_byname<char, char, __mbstate_t>` specified in Table 7-213, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-213 libstdc++ - Class `codecvt_byname<char, char, __mbstate_t>` Function Interfaces

<code>codecvt_byname<char, char, __mbstate_t>::codecvt_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>codecvt_byname<char, char, __mbstate_t>::codecvt_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.107 Class codecvt_byname<wchar_t, char, __mbstate_t>**7.1.107.1 Class data for codecvt_byname<wchar_t, char, __mbstate_t>**

The virtual table for the `std::codecvt_byname<wchar_t, char, __mbstate_t>` class is described by Table 7-214

Table 7-214 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>
vfunc[0]:	<code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()</code>
vfunc[1]:	<code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()</code>
vfunc[2]:	<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>
vfunc[3]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code>
vfunc[4]:	<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>
vfunc[5]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_encoding() const</code>
vfunc[6]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_always_noconv() const</code>
vfunc[7]:	<code>codecvt<wchar_t, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned int) const</code>
vfunc[8]:	<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 7-215

Table 7-215 typeinfo for codecvt_byname<wchar_t, char, __mbstate_t>

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

Name	typeinfo name for codecvt_byname<wchar_t, char, __mbstate_t>
------	--

7.1.107.2 Class data for `collate_byname<wchar_t>`

The virtual table for the `std::collate_byname<wchar_t>` class is described by Table 7-216

Table 7-216 Primary vtable for `collate_byname<wchar_t>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>collate_byname<wchar_t></code>
vfunc[0]:	<code>collate_byname<wchar_t>::~~collate_byname()</code>
vfunc[1]:	<code>collate_byname<wchar_t>::~~collate_byname()</code>
vfunc[2]:	<code>collate<wchar_t>::do_compare(wchar_t const*, wchar_t const*, wchar_t const*, wchar_t const*) const</code>
vfunc[3]:	<code>collate<wchar_t>::do_transform(wchar_t const*, wchar_t const*) const</code>
vfunc[4]:	<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 7-217

Table 7-217 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>

7.1.107.3 Interfaces for Class `codecvt_byname<wchar_t, char, __mbstate_t>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::codecvt_byname<wchar_t, char, __mbstate_t>` specified in Table 7-218, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-218 libstdc++ - Class `codecvt_byname<wchar_t, char, __mbstate_t>` Function Interfaces

<code>codecvt_byname<wchar_t, char, __mbstate_t>::codecvt_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

<code>codecv_t_byname<wchar_t, char, __mbstate_t>::codecv_t_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>collate_byname<wchar_t>::collate_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>collate_byname<wchar_t>::collate_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.108 Class `collate<char>`

7.1.108.1 Class data for `collate<char>`

The virtual table for the `std::collate<char>` class is described by Table 7-219

Table 7-219 Primary vtable for `collate<char>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>collate<char></code>
<code>vfunc[0]:</code>	<code>collate<char>::~~collate()</code>
<code>vfunc[1]:</code>	<code>collate<char>::~~collate()</code>
<code>vfunc[2]:</code>	<code>collate<char>::do_compare(char const*, char const*, char const*, char const*) const</code>
<code>vfunc[3]:</code>	<code>collate<char>::do_transform(char const*, char const*) const</code>
<code>vfunc[4]:</code>	<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 7-220

Table 7-220 typeinfo for `collate<char>`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo name for <code>collate<char></code>

7.1.108.2 Interfaces for Class `collate<char>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::collate<char>` specified in Table 7-221, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-221 libstdc++ - Class `collate<char>` Function Interfaces

<code>collate<char>::_M_transform(char*, char const*, unsigned int)</code>
--

const(GLIBCXX_3.4) [1]
collate<char>::collate(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
collate<char>::collate(unsigned int)(GLIBCXX_3.4) [1]
collate<char>::collate(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
collate<char>::collate(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.109 Class collate<wchar_t>

7.1.109.1 Class data for collate<wchar_t>

The virtual table for the std::collate<wchar_t> class is described by Table 7-222

Table 7-222 Primary vtable for collate<wchar_t>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for collate<wchar_t>
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 7-223

Table 7-223 typeinfo for collate<wchar_t>

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for collate<wchar_t>

7.1.109.2 Interfaces for Class collate<wchar_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::collate<wchar_t> specified in Table 7-224, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-224 libstdc++ - Class collate<wchar_t> Function Interfaces

collate<wchar_t>::M_transform(wchar_t*, wchar_t const*, unsigned int)

const(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(unsigned int)(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(__locale_struct*, unsigned int)(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.110 Class `collate_byname<char>`

7.1.110.1 Class data for `collate_byname<char>`

The virtual table for the `std::collate_byname<char>` class is described by Table 7-225

Table 7-225 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*) 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 7-226

Table 7-226 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>

7.1.110.2 Interfaces for Class `collate_byname<char>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::collate_byname<char>` specified in Table 7-227, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-227 libstdcxx - Class `collate_byname<char>` Function Interfaces

<code>collate_byname<char>::collate_byname(char const*, unsigned int)(GLIBCXX_3.4)</code> [1]
<code>collate_byname<char>::collate_byname(char const*, unsigned int)(GLIBCXX_3.4)</code> [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.111 Class `collate_byname<wchar_t>`

7.1.111.1 Interfaces for Class `collate_byname<wchar_t>`

No external methods are defined for libstdcxx - Class `std::collate_byname<wchar_t>`

7.1.112 Class `time_base`

7.1.112.1 Class data for `time_base`

The Run Time Type Information for the `std::time_base` class is described by Table 7-228

Table 7-228 `typeinfo` for `time_base`

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	<code>typeinfo</code> name for <code>time_base</code>

7.1.112.2 Interfaces for Class `time_base`

No external methods are defined for libstdcxx - Class `std::time_base`

7.1.113 Class `time_get_byname<char, istreambuf_iterator<char, char_traits<char>>>`

7.1.113.1 Class data for `time_get_byname<char, istreambuf_iterator<char, char_traits<char>>>`

The virtual table for the `std::time_get_byname<char, std::istreambuf_iterator<char, std::char_traits<char>>>` class is described by Table 7-229

Table 7-229 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,</code>

	char_traits<char> > >::~time_get_byname()
vfunc[1]:	time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >::~time_get_byname()
vfunc[2]:	time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_date_order() const
vfunc[3]:	time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_time(istreambuf_iterator<ch ar, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const
vfunc[4]:	time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_date(istreambuf_iterator<ch ar, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const
vfunc[5]:	time_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get_weekday(istreambuf_iterato r<char, char_traits<char> >, 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_iter ator<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<ch ar, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const

	_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 7-230

Table 7-230 typeinfo for `time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >`

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > ></code>

7.1.113.2 Interfaces for Class `time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::time_get_byname<char, std::istreambuf_iterator<char, std::char_traits<char> > >` specified in Table 7-231, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-231 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(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >::time_get_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.114 Class `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

7.1.114.1 Class data for `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

The virtual table for the `std::time_get_byname<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` class is described by Table 7-232

Table 7-232 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,</code>

	istreambuf_iterator<wchar_t, char_traits<wchar_t> > >
vfunc[0]:	time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~time_get_byname()
vfunc[1]:	time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~time_get_byname()
vfunc[2]:	time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~do_date_order() const
vfunc[3]:	time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~do_get_time(istreambuf_iterator<wc har_t, char_traits<wchar_t> >, 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<wc har_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_iterato r<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_iter ator<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<wc har_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _los_losestate&, 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 7-233

Table 7-233 typeinfo for `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >

7.1.114.2 Interfaces for Class `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::time_get_byname<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 7-234, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-234 libstdc++ - 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(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::time_get_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.115 Class `time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >`

7.1.115.1 Class data for `time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >`

The virtual table for the `std::time_put_byname<char, std::ostreambuf_iterator<char, std::char_traits<char> > >` class is described by Table 7-235

Table 7-235 Primary vtable for `time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >`

Base Offset	0
-------------	---

Virtual Base Offset	0
RTTI	typeinfo for time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >
vfunc[0]:	time_put_byname<char, ostreambuf_iterator<char, 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 7-236

Table 7-236 typeinfo for time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeinfo name for time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >

7.1.115.2 Interfaces for Class time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >

An LSB conforming implementation shall provide the architecture specific methods for Class std::time_put_byname<char, std::ostreambuf_iterator<char, std::char_traits<char> > > specified in Table 7-237, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-237 libstdcxx - Class time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces

time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >::time_put_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]
time_put_byname<char, ostreambuf_iterator<char, char_traits<char> > >::time_put_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.116 Class `time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

7.1.116.1 Class data for `time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

The virtual table for the `std::time_put_byname<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` class is described by Table 7-238

Table 7-238 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 <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>
vfunc[0]:	<code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~~time_put_byname()</code>
vfunc[1]:	<code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~~time_put_byname()</code>
vfunc[2]:	<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_byname<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` class is described by Table 7-239

Table 7-239 typeinfo for `time_put_byname<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_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>

7.1.116.2 Interfaces for Class `time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::time_put_byname<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 7-240, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-240 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(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>::time_put_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.117 Class `time_get<char, istreambuf_iterator<char, char_traits<char>>>`

7.1.117.1 Class data for `time_get<char, istreambuf_iterator<char, char_traits<char>>>`

The virtual table for the `std::time_get<char, std::istreambuf_iterator<char, std::char_traits<char>>>` class is described by Table 7-241

Table 7-241 Primary vtable for `time_get<char, istreambuf_iterator<char, char_traits<char>>>`

Base Offset	0
Virtual Base Offset	0
RTTI	<code>typeid for 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<ch</code>

	ar, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const
vfunc[4]:	time_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get_date(istreambuf_iterator<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const
vfunc[5]:	time_get<char, istreambuf_iterator<char, char_traits<char> >>::do_get_weekday(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_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<char, char_traits<char> >, ios_base&, _Ios_Iostate&, tm*) const

7.1.117.2 Interfaces for Class `time_get<char, istreambuf_iterator<char, char_traits<char> > >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::time_get<char, std::istreambuf_iterator<char, std::char_traits<char> > >` specified in Table 7-242, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-242 libstdcxx - Class `time_get<char, istreambuf_iterator<char, char_traits<char> > >` Function Interfaces

<code>time_get<char, istreambuf_iterator<char, char_traits<char> >>::_M_extract_num(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, int&, int, int, unsigned int,</code>
--

<code>ios_base&, _Ios_Iostate&) const(GLIBCXX_3.4) [1]</code>
<code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::_M_extract_name(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, int&, char const**, unsigned int, ios_base&, _Ios_Iostate&) const(GLIBCXX_3.4) [1]</code>
<code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::time_get(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>time_get<char, istreambuf_iterator<char, char_traits<char> > >::time_get(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.118 Class `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

7.1.118.1 Class data for `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

The virtual table for the `std::time_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` class is described by Table 7-243

Table 7-243 Primary vtable for `time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

Base Offset	0
Virtual Base Offset	0
RTTI	<code>typeinfo for time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code>
<code>vfunc[0]:</code>	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~time_get()</code>
<code>vfunc[1]:</code>	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~time_get()</code>
<code>vfunc[2]:</code>	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_date_order() const</code>
<code>vfunc[3]:</code>	<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]:	time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_date(istreambuf_iterator<wc har_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_iterato r<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_iter ator<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<wc har_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const

7.1.118.2 Interfaces for Class time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >

An LSB conforming implementation shall provide the architecture specific methods for Class std::time_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > > specified in Table 7-244, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-244 libstdcxx - Class time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces

time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_extract_num(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, int&, int, int, unsigned int, ios_base&, _Ios_Iostate&) const(GLIBCXX.3.4) [1]
time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_extract_name(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, int&, wchar_t const**,

<code>unsigned int, ios_base&, _Ios_Iostate&) const(GLIBCXX_3.4) [1]</code>
<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::time_get(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::time_get(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.119 Class `time_put<char, ostreambuf_iterator<char, char_traits<char> > >`

7.1.119.1 Interfaces for Class `time_put<char, ostreambuf_iterator<char, char_traits<char> > >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::time_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >` specified in Table 7-245, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-245 libstdcxx - Class `time_put<char, ostreambuf_iterator<char, char_traits<char> > >` Function Interfaces

<code>time_put<char, ostreambuf_iterator<char, char_traits<char> > >::time_put(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>time_put<char, ostreambuf_iterator<char, char_traits<char> > >::time_put(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.120 Class `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

7.1.120.1 Interfaces for Class `time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::time_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 7-246, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-246 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> > >::time_put(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::time_put(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.121 Class `money_punct<char, false>`

7.1.121.1 Class data for `money_punct<char, false>`

The virtual table for the `std::money_punct<char, false>` class is described by Table 7-247

Table 7-247 Primary vtable for `money_punct<char, false>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>money_punct<char, false></code>
<code>vfunc[0]:</code>	<code>money_punct<char, false>::~~money_punct()</code>
<code>vfunc[1]:</code>	<code>money_punct<char, false>::~~money_punct()</code>
<code>vfunc[2]:</code>	<code>money_punct<char, false>::do_decimal_point() const</code>
<code>vfunc[3]:</code>	<code>money_punct<char, false>::do_thousands_sep() const</code>
<code>vfunc[4]:</code>	<code>money_punct<char, false>::do_grouping() const</code>
<code>vfunc[5]:</code>	<code>money_punct<char, false>::do_curr_symbol() const</code>
<code>vfunc[6]:</code>	<code>money_punct<char, false>::do_positive_sign() const</code>
<code>vfunc[7]:</code>	<code>money_punct<char, false>::do_negative_sign() const</code>
<code>vfunc[8]:</code>	<code>money_punct<char, false>::do_frac_digits() const</code>
<code>vfunc[9]:</code>	<code>money_punct<char, false>::do_pos_format() const</code>
<code>vfunc[10]:</code>	<code>money_punct<char, false>::do_neg_format() const</code>

7.1.121.2 Interfaces for Class `money_punct<char, false>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::money_punct<char, false>` specified in Table 7-248, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-248 `libstdc++` - Class `money_punct<char, false>` Function Interfaces

<code>money_punct<char, false>::money_punct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
--

money_punct<char, false>::money_punct(__money_punct_cache<char, false>*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(__money_punct_cache<char, false>*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.122 Class money_punct<char, true>

7.1.122.1 Class data for money_punct<char, true>

The virtual table for the std::money_punct<char, true> class is described by Table 7-249

Table 7-249 Primary vtable for money_punct<char, true>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for money_punct<char, true>
vfunc[0]:	money_punct<char, true>::~~money_punct()
vfunc[1]:	money_punct<char, true>::~~money_punct()
vfunc[2]:	money_punct<char, true>::do_decimal_point() const
vfunc[3]:	money_punct<char, true>::do_thousands_sep() const
vfunc[4]:	money_punct<char, true>::do_grouping() const
vfunc[5]:	money_punct<char, true>::do_curr_symbol() const
vfunc[6]:	money_punct<char, true>::do_positive_sign() const
vfunc[7]:	money_punct<char, true>::do_negative_sign() const
vfunc[8]:	money_punct<char, true>::do_frac_digits() const
vfunc[9]:	money_punct<char, true>::do_pos_format() const

vfunc[10]:	money_punct<char, true>::do_neg_format() const
------------	--

7.1.122.2 Interfaces for Class money_punct<char, true>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money_punct<char, true> specified in Table 7-250, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-250 libstdc++ - Class money_punct<char, true> Function Interfaces

money_punct<char, true>::money_punct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(__money_punct_cache<char, true>*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(__money_punct_cache<char, true>*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.123 Class money_punct<wchar_t, false>

7.1.123.1 Class data for money_punct<wchar_t, false>

The virtual table for the std::money_punct<wchar_t, false> class is described by Table 7-251

Table 7-251 Primary vtable for money_punct<wchar_t, false>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo 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]:	moneypunct<wchar_t, false>::do_curr_symbol() const
vfunc[6]:	moneypunct<wchar_t, false>::do_positive_sign() const
vfunc[7]:	moneypunct<wchar_t, false>::do_negative_sign() const
vfunc[8]:	moneypunct<wchar_t, false>::do_frac_digits() const
vfunc[9]:	moneypunct<wchar_t, false>::do_pos_format() const
vfunc[10]:	moneypunct<wchar_t, false>::do_neg_format() const

7.1.123.2 Interfaces for Class moneypunct<wchar_t, false>

An LSB conforming implementation shall provide the architecture specific methods for Class std::moneypunct<wchar_t, false> specified in Table 7-252, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-252 libstdcxx - Class moneypunct<wchar_t, false> Function Interfaces

moneypunct<wchar_t, false>::moneypunct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
moneypunct<wchar_t, false>::moneypunct(__moneypunct_cache<wchar_t, false>*, unsigned int)(GLIBCXX_3.4) [1]
moneypunct<wchar_t, false>::moneypunct(unsigned int)(GLIBCXX_3.4) [1]
moneypunct<wchar_t, false>::moneypunct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
moneypunct<wchar_t, false>::moneypunct(__moneypunct_cache<wchar_t, false>*, unsigned int)(GLIBCXX_3.4) [1]
moneypunct<wchar_t, false>::moneypunct(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.124 Class moneypunct<wchar_t, true>

7.1.124.1 Class data for moneypunct<wchar_t, true>

The virtual table for the std::moneypunct<wchar_t, true> class is described by Table 7-253

Table 7-253 Primary vtable for moneypunct<wchar_t, true>

Base Offset	0
Virtual Base Offset	0

RTTI	typeid for money_punct<wchar_t, true>
vfunc[0]:	money_punct<wchar_t, true>::~~money_punct()
vfunc[1]:	money_punct<wchar_t, true>::~~money_punct()
vfunc[2]:	money_punct<wchar_t, true>::do_decimal_point() const
vfunc[3]:	money_punct<wchar_t, true>::do_thousands_sep() const
vfunc[4]:	money_punct<wchar_t, true>::do_grouping() const
vfunc[5]:	money_punct<wchar_t, true>::do_curr_symbol() const
vfunc[6]:	money_punct<wchar_t, true>::do_positive_sign() const
vfunc[7]:	money_punct<wchar_t, true>::do_negative_sign() const
vfunc[8]:	money_punct<wchar_t, true>::do_frac_digits() const
vfunc[9]:	money_punct<wchar_t, true>::do_pos_format() const
vfunc[10]:	money_punct<wchar_t, true>::do_neg_format() const

7.1.124.2 Interfaces for Class money_punct<wchar_t, true>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money_punct<wchar_t, true> specified in Table 7-254, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-254 libstdc++ - Class money_punct<wchar_t, true> Function Interfaces

money_punct<wchar_t, true>::money_punct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<wchar_t, true>::money_punct(__money_punct_cache<wchar_t, true>*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<wchar_t, true>::money_punct(unsigned int)(GLIBCXX_3.4) [1]
money_punct<wchar_t, true>::money_punct(__locale_struct*, char const*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<wchar_t, true>::money_punct(__money_punct_cache<wchar_t, true>*, unsigned int)(GLIBCXX_3.4) [1]
money_punct<wchar_t, true>::money_punct(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.125 Class `moneypunct_byname<char, false>`

7.1.125.1 Class data for `moneypunct_byname<char, false>`

The virtual table for the `std::moneypunct_byname<char, false>` class is described by Table 7-255

Table 7-255 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 7-256

Table 7-256 typeinfo for `moneypunct_byname<char, false>`

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

Name	typeinfo name for moneypunct_byname<char, false>
------	---

7.1.125.2 Interfaces for Class `moneypunct_byname<char, false>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::moneypunct_byname<char, false>` specified in Table 7-257, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-257 libstdcxx - Class `moneypunct_byname<char, false>` Function Interfaces

<code>moneypunct_byname<char, false>::moneypunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>moneypunct_byname<char, false>::moneypunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.126 Class `moneypunct_byname<char, true>`

7.1.126.1 Class data for `moneypunct_byname<char, true>`

The virtual table for the `std::moneypunct_byname<char, true>` class is described by Table 7-258

Table 7-258 Primary vtable for `moneypunct_byname<char, true>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo 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, true>::do_thousands_sep() const</code>
<code>vfunc[4]:</code>	<code>moneypunct<char, true>::do_grouping() const</code>
<code>vfunc[5]:</code>	<code>moneypunct<char, true>::do_curr_symbol() const</code>
<code>vfunc[6]:</code>	<code>moneypunct<char, true>::do_positive_sign() const</code>

vfunc[7]:	money_punct<char, true>::do_negative_sign() const
vfunc[8]:	money_punct<char, true>::do_frac_digits() const
vfunc[9]:	money_punct<char, true>::do_pos_format() const
vfunc[10]:	money_punct<char, true>::do_neg_format() const

The Run Time Type Information for the `std::money_punct_byname<char, true>` class is described by Table 7-259

Table 7-259 typeinfo for `money_punct_byname<char, true>`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo name for <code>money_punct_byname<char, true></code>

7.1.126.2 Interfaces for Class `money_punct_byname<char, true>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::money_punct_byname<char, true>` specified in Table 7-260, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-260 libstdc++ - Class `money_punct_byname<char, true>` Function Interfaces

<code>money_punct_byname<char, true>::money_punct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>money_punct_byname<char, true>::money_punct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.127 Class `money_punct_byname<wchar_t, false>`

7.1.127.1 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 7-261

Table 7-261 Primary vtable for `money_punct_byname<wchar_t, false>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>money_punct_byname<wchar_t, false></code>

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::money_punct_byname<wchar_t, false>` class is described by Table 7-262

Table 7-262 typeid for money_punct_byname<wchar_t, false>

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>money_punct_byname<wchar_t, false></code>

7.1.127.2 Interfaces for Class `money_punct_byname<wchar_t, false>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::money_punct_byname<wchar_t, false>` specified in Table 7-263, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-263 libstdc++ - Class money_punct_byname<wchar_t, false> Function Interfaces

<code>money_punct_byname<wchar_t, false>::money_punct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>money_punct_byname<wchar_t, false>::money_punct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.128 Class `moneypunct_byname<wchar_t, true>`

7.1.128.1 Class data for `moneypunct_byname<wchar_t, true>`

The virtual table for the `std::moneypunct_byname<wchar_t, true>` class is described by Table 7-264

Table 7-264 Primary vtable for `moneypunct_byname<wchar_t, true>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>moneypunct_byname<wchar_t, true></code>
<code>vfunc[0]:</code>	<code>moneypunct_byname<wchar_t, true>::~~moneypunct_byname()</code>
<code>vfunc[1]:</code>	<code>moneypunct_byname<wchar_t, true>::~~moneypunct_byname()</code>
<code>vfunc[2]:</code>	<code>moneypunct<wchar_t, true>::do_decimal_point() const</code>
<code>vfunc[3]:</code>	<code>moneypunct<wchar_t, true>::do_thousands_sep() const</code>
<code>vfunc[4]:</code>	<code>moneypunct<wchar_t, true>::do_grouping() const</code>
<code>vfunc[5]:</code>	<code>moneypunct<wchar_t, true>::do_curr_symbol() const</code>
<code>vfunc[6]:</code>	<code>moneypunct<wchar_t, true>::do_positive_sign() const</code>
<code>vfunc[7]:</code>	<code>moneypunct<wchar_t, true>::do_negative_sign() const</code>
<code>vfunc[8]:</code>	<code>moneypunct<wchar_t, true>::do_frac_digits() const</code>
<code>vfunc[9]:</code>	<code>moneypunct<wchar_t, true>::do_pos_format() const</code>
<code>vfunc[10]:</code>	<code>moneypunct<wchar_t, true>::do_neg_format() const</code>

The Run Time Type Information for the `std::moneypunct_byname<wchar_t, true>` class is described by Table 7-265

Table 7-265 typeinfo for `moneypunct_byname<wchar_t, true>`

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

Name	typeinfo name for moneypunct_byname<wchar_t, true>
------	---

7.1.128.2 Interfaces for Class `moneypunct_byname<wchar_t, true>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::moneypunct_byname<wchar_t, true>` specified in Table 7-266, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-266 libstdcxx - Class `moneypunct_byname<wchar_t, true>` Function Interfaces

<code>moneypunct_byname<wchar_t, true>::moneypunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>moneypunct_byname<wchar_t, true>::moneypunct_byname(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.129 Class `money_base`

7.1.129.1 Class data for `money_base`

The Run Time Type Information for the `std::money_base` class is described by Table 7-267

Table 7-267 typeinfo for `money_base`

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	typeinfo name for <code>money_base</code>

7.1.129.2 Interfaces for Class `money_base`

No external methods are defined for libstdcxx - Class `std::money_base`

7.1.130 Class `money_get<char, istreambuf_iterator<char, char_traits<char> > >`

7.1.130.1 Class data for `money_get<char, istreambuf_iterator<char, char_traits<char> > >`

The virtual table for the `std::money_get<char, std::istreambuf_iterator<char, std::char_traits<char> > >` class is described by Table 7-268

Table 7-268 Primary vtable for `money_get<char, istreambuf_iterator<char, char_traits<char> > >`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>money_get<char,</code>

	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 7-269

Table 7-269 typeid for money_get<char, istreambuf_iterator<char, char_traits<char> > >

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for money_get<char, istreambuf_iterator<char, char_traits<char> > >

7.1.130.2 Interfaces for Class money_get<char, istreambuf_iterator<char, char_traits<char> > >

An LSB conforming implementation shall provide the architecture specific methods for Class std::money_get<char, std::istreambuf_iterator<char, std::char_traits<char> > > specified in Table 7-270, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-270 libstdcxx - Class money_get<char, istreambuf_iterator<char, char_traits<char>>> Function Interfaces

money_get<char, istreambuf_iterator<char, char_traits<char>>> >::money_get(unsigned int)(GLIBCXX_3.4) [1]
money_get<char, istreambuf_iterator<char, char_traits<char>>> >::money_get(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.131 Class money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>

7.1.131.1 Class data for money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>

The virtual table for the std::money_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t>>> class is described by Table 7-271

Table 7-271 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 money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>
vfunc[0]:	money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::~~money_get()
vfunc[1]:	money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::~~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 7-272

Table 7-272 typeid 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	typeid name for <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > ></code>

7.1.131.2 Interfaces for Class `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::money_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 7-273, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-273 libstdc++ - Class `money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Function Interfaces

<code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::money_get(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::money_get(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.132 Class `money_put<char, ostreambuf_iterator<char, char_traits<char> > >`

7.1.132.1 Class data for `money_put<char, ostreambuf_iterator<char, char_traits<char> > >`

The virtual table for the `std::money_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >` class is described by Table 7-274

Table 7-274 Primary vtable for `money_put<char, ostreambuf_iterator<char, char_traits<char> > >`

Base Offset	0
-------------	---

Virtual Base Offset	0
RTTI	typeid 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 7-275

Table 7-275 typeid for money_put<char, ostreambuf_iterator<char, char_traits<char> > >

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for money_put<char, ostreambuf_iterator<char, char_traits<char> > >

7.1.132.2 Interfaces for Class money_put<char, ostreambuf_iterator<char, char_traits<char> > >

An LSB conforming implementation shall provide the architecture specific methods for Class std::money_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > > specified in Table 7-276, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-276 libstdc++ - Class money_put<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces

money_put<char, ostreambuf_iterator<char, char_traits<char> > >

```
>::money_put(unsigned int)(GLIBCXX_3.4) [1]
```

```
money_put<char, ostreambuf_iterator<char, char_traits<char> > >  
>::money_put(unsigned int)(GLIBCXX_3.4) [1]
```

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.133 Class `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

7.1.133.1 Class data for `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

The virtual table for the `std::money_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` class is described by Table 7-277

Table 7-277 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>
vfunc[0]:	<code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~money_put()</code>
vfunc[1]:	<code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::~~money_put()</code>
vfunc[2]:	<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>
vfunc[3]:	<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>

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 7-278

Table 7-278 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>

7.1.133.2 Interfaces for Class `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::money_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` specified in Table 7-279, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-279 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> > >::money_put(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::money_put(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.134 Class locale

7.1.134.1 Interfaces for Class locale

An LSB conforming implementation shall provide the architecture specific methods for Class `std::locale` specified in Table 7-280, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-280 libstdc++ - Class locale Function Interfaces

<code>locale::_Impl::_Impl(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>locale::_Impl::_Impl(locale::_Impl const&, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>locale::_Impl::_Impl(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>locale::_Impl::_Impl(char const*, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>locale::_Impl::_Impl(locale::_Impl const&, unsigned int)(GLIBCXX_3.4) [1]</code>
<code>locale::_Impl::_Impl(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. this specification

7.1.135 Class `locale::facet`

7.1.135.1 Class data for `locale::facet`

The virtual table for the `std::locale::facet` class is described by Table 7-281

Table 7-281 Primary vtable for `locale::facet`

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo for <code>locale::facet</code>
<code>vfunc[0]:</code>	<code>locale::facet::~~facet()</code>
<code>vfunc[1]:</code>	<code>locale::facet::~~facet()</code>

The Run Time Type Information for the `std::locale::facet` class is described by Table 7-282

Table 7-282 typeinfo for `locale::facet`

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	typeinfo name for <code>locale::facet</code>

7.1.135.2 Interfaces for Class `locale::facet`

No external methods are defined for `libstdcxx` - Class `std::locale::facet`

7.1.136 facet functions

7.1.136.1 Interfaces for facet functions

No external methods are defined for `libstdcxx` - facet functions

7.1.137 Class `__num_base`

7.1.137.1 Class data for `__num_base`

The Run Time Type Information for the `std::__num_base` class is described by Table 7-283

Table 7-283

Base Vtable	vtable for <code>__cxxabiv1::__class_type_info</code>
Name	typeinfo name for <code>__num_base</code>

7.1.137.2 Interfaces for Class `__num_base`

No external methods are defined for `libstdcxx` - Class `std::__num_base`

7.1.138 Class `num_get<char, istreambuf_iterator<char, char_traits<char>>>`

7.1.138.1 Interfaces for Class `num_get<char, istreambuf_iterator<char, char_traits<char>>>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::num_get<char, std::istreambuf_iterator<char, std::char_traits<char>>>` specified in Table 7-284, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-284 libstdcxx - Class `num_get<char, istreambuf_iterator<char, char_traits<char>>>` Function Interfaces

<code>num_get<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::num_get(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>num_get<char, istreambuf_iterator<char, char_traits<char>>></code> <code>>::num_get(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.139 Class `num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

7.1.139.1 Interfaces for Class `num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::num_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` specified in Table 7-285, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-285 libstdcxx - Class `num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>` Function Interfaces

<code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::num_get(unsigned int)(GLIBCXX_3.4) [1]</code>
<code>num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::num_get(unsigned int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.140 Class `num_put<char, ostreambuf_iterator<char, char_traits<char>>>`

7.1.140.1 Interfaces for Class `num_put<char, ostreambuf_iterator<char, char_traits<char>>>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::num_put<char, std::ostreambuf_iterator<char, std::char_traits<char>>>`

>> specified in Table 7-286, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-286 libstdcxx - Class num_put<char, ostreambuf_iterator<char, char_traits<char>>> Function Interfaces

num_put<char, ostreambuf_iterator<char, char_traits<char>>> >::_M_group_int(char const*, unsigned int, char, ios_base&, char*, char*, int&) const(GLIBCXX_3.4) [1]
num_put<char, ostreambuf_iterator<char, char_traits<char>>> >::_M_group_float(char const*, unsigned int, char, char const*, char*, char*, int&) const(GLIBCXX_3.4) [1]
num_put<char, ostreambuf_iterator<char, char_traits<char>>>>::_M_pad(char, int, ios_base&, char*, char const*, int&) const(GLIBCXX_3.4) [1]
num_put<char, ostreambuf_iterator<char, char_traits<char>>> >::num_put(unsigned int)(GLIBCXX_3.4) [1]
num_put<char, ostreambuf_iterator<char, char_traits<char>>> >::num_put(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.141 Class num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>

7.1.141.1 Interfaces for Class num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::num_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>> specified in Table 7-287, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-287 libstdcxx - Class num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> Function Interfaces

num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_group_int(char const*, unsigned int, wchar_t, ios_base&, wchar_t*, wchar_t*, int&) const(GLIBCXX_3.4) [1]
num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_group_float(char const*, unsigned int, wchar_t, wchar_t const*, wchar_t*, wchar_t*, int&) const(GLIBCXX_3.4) [1]
num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::_M_pad(wchar_t, int, ios_base&, wchar_t*, wchar_t const*, int&) const(GLIBCXX_3.4) [1]
num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::num_put(unsigned int)(GLIBCXX_3.4) [1]
num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>> >::num_put(unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.142 Class `gslice`

7.1.142.1 Class data for `gslice`

7.1.142.2 Interfaces for Class `gslice`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::gslice` specified in Table 7-288, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-288 libstdcxx - Class `gslice` Function Interfaces

<code>gslice::_Indexer::_Indexer(unsigned int, valarray<unsigned int> const&, valarray<unsigned int> const&)(GLIBCXX_3.4) [1]</code>
<code>gslice::_Indexer::_Indexer(unsigned int, valarray<unsigned int> const&, valarray<unsigned int> const&)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.143 Class `__basic_file<char>`

7.1.143.1 Class data for `__basic_file<char>`

7.1.143.2 Interfaces for Class `__basic_file<char>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::__basic_file<char>` specified in Table 7-289, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-289 libstdcxx - Class `__basic_file<char>` Function Interfaces

<code>__basic_file<char>::xsgetn(char*, int)(GLIBCXX_3.4) [1]</code>
<code>__basic_file<char>::xspn(char const*, int)(GLIBCXX_3.4) [1]</code>
<code>__basic_file<char>::seekoff(long long, _Ios_Seekdir)(GLIBCXX_3.4) [1]</code>
<code>__basic_file<char>::xspn_2(char const*, int, char const*, int)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.1.144 Class `_List_node_base`

7.1.144.1 Interfaces for Class `_List_node_base`

No external methods are defined for libstdcxx - Class `std::_List_node_base`

7.1.145 Class valarray<unsigned int>**7.1.145.1 Class data for valarray<unsigned int>****7.1.145.2 Interfaces for Class valarray<unsigned int>**

An LSB conforming implementation shall provide the architecture specific methods for Class `std::valarray<unsigned int>` specified in Table 7-290, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-290 libstdcxx - Class valarray<unsigned int> Function Interfaces

<code>valarray<unsigned int>::size() const</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned int>::valarray(valarray<unsigned int> const&)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned int>::valarray(unsigned int)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned int>::valarray(valarray<unsigned int> const&)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned int>::valarray(unsigned int)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned int>::~~valarray()</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned int>::~~valarray()</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned int>::operator[]</code> (unsigned int)(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. ISO/IEC 14882: 2003 C++ Language

7.2 Interface Definitions for libstdcxx

The following interfaces 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 above for libstdcxx shall behave as described in the referenced base document.

Annex A GNU Free Documentation License

Version 1.1, March 2000

Copyright (C) 2000 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

A.1 PREAMBLE

The purpose of this License is to make a manual, textbook, or other written document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

A.2 APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you".

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (For example, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, whose

contents can be viewed and edited directly and straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup has been designed to thwart or discourage subsequent modification by readers is not Transparent. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML designed for human modification. Opaque formats include PostScript, PDF, proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

A.3 VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

A.4 COPYING IN QUANTITY

If you publish printed copies of the Document numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a publicly-accessible computer-network location containing a complete Transparent copy of the Document, free of added material, which the general network-using public has access to download

anonymously at no charge using public-standard network protocols. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

A.5 MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
- B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has less than five).
- C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
- D. Preserve all the copyright notices of the Document.
- E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
- F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
- G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
- H. Include an unaltered copy of this License.
- I. Preserve the section entitled "History", and its title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.
- J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work

that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

- K. In any section entitled "Acknowledgements" or "Dedications", preserve the section's title, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.
- L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.
- M. Delete any section entitled "Endorsements". Such a section may not be included in the Modified Version.
- N. Do not retitle any existing section as "Endorsements" or to conflict in title with any Invariant Section.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties—for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

A.6 COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections entitled "History" in the various original documents, forming one section entitled "History"; likewise combine any

sections entitled "Acknowledgements", and any sections entitled "Dedications". You must delete all sections entitled "Endorsements."

A.7 COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

A.8 AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, does not as a whole count as a Modified Version of the Document, provided no compilation copyright is claimed for the compilation. Such a compilation is called an "aggregate", and this License does not apply to the other self-contained works thus compiled with the Document, on account of their being thus compiled, if they are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one quarter of the entire aggregate, the Document's Cover Texts may be placed on covers that surround only the Document within the aggregate. Otherwise they must appear on covers around the whole aggregate.

A.9 TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License provided that you also include the original English version of this License. In case of a disagreement between the translation and the original English version of this License, the original English version will prevail.

A.10 TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

A.11 FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in

spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

A.12 How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME. Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.1 or any later version published by the Free Software Foundation; with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have no Invariant Sections, write "with no Invariant Sections" instead of saying which ones are invariant. If you have no Front-Cover Texts, write "no Front-Cover Texts" instead of "Front-Cover Texts being LIST"; likewise for Back-Cover Texts.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.