

Linux Standard Base C++ Specification for PPC64 3.0

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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.....	157
A GNU Free Documentation License	158
A.1 PREAMBLE	158
A.2 APPLICABILITY AND DEFINITIONS	158
A.3 VERBATIM COPYING	159
A.4 COPYING IN QUANTITY	159
A.5 MODIFICATIONS.....	160
A.6 COMBINING DOCUMENTS	161
A.7 COLLECTIONS OF DOCUMENTS	162
A.8 AGGREGATION WITH INDEPENDENT WORKS	162
A.9 TRANSLATION.....	162
A.10 TERMINATION.....	162
A.11 FUTURE REVISIONS OF THIS LICENSE	162
A.12 How to use this License for your documents	163

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>	49
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> >	64
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> >	67
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> >	71
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_iostream<char, char_traits<char> >.....	75
7-106 Secondary vtable for basic_iostream<char, char_traits<char> >	75
7-107 Secondary vtable for basic_iostream<char, char_traits<char> >	75
7-108 VTT for basic_iostream<char, char_traits<char> >	75
7-109 libstdc++ - Class basic_iostream<char, char_traits<char> > Function Interfaces.....	76
7-110 Primary vtable for basic_iostream<wchar_t, char_traits<wchar_t> >	76
7-111 Secondary vtable for basic_iostream<wchar_t, char_traits<wchar_t> >	76
7-112 Secondary vtable for basic_iostream<wchar_t, char_traits<wchar_t> >	77
7-113 VTT for basic_iostream<wchar_t, char_traits<wchar_t> >	77
7-114 libstdc++ - Class basic_iostream<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.....	79
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 <code>basic_ostream<char, char_traits<char>></code> >	81
7-124 Secondary vtable for <code>basic_ostream<char, char_traits<char>></code> >	81
7-125 VTT for <code>basic_ostream<char, char_traits<char>></code> >	82
7-126 libstdcxx - Class <code>basic_ostream<char, char_traits<char>></code> > Function Interfaces	82
7-127 Primary vtable for <code>basic_ostream<wchar_t, char_traits<wchar_t>></code> >	82
7-128 Secondary vtable for <code>basic_ostream<wchar_t, char_traits<wchar_t>></code> >	83
7-129 VTT for <code>basic_ostream<wchar_t, char_traits<wchar_t>></code> >	83
7-130 libstdcxx - Class <code>basic_ostream<wchar_t, char_traits<wchar_t>></code> > Function Interfaces	83
7-131 Primary vtable for <code>basic_fstream<char, char_traits<char>></code> >	84
7-132 Secondary vtable for <code>basic_fstream<char, char_traits<char>></code> >	84
7-133 Secondary vtable for <code>basic_fstream<char, char_traits<char>></code> >	84
7-134 VTT for <code>basic_fstream<char, char_traits<char>></code> >	85
7-135 libstdcxx - Class <code>basic_fstream<char, char_traits<char>></code> > Function Interfaces	85
7-136 Primary vtable for <code>basic_fstream<wchar_t, char_traits<wchar_t>></code> >	85
7-137 Secondary vtable for <code>basic_fstream<wchar_t, char_traits<wchar_t>></code> >	86
7-138 Secondary vtable for <code>basic_fstream<wchar_t, char_traits<wchar_t>></code> >	86
7-139 VTT for <code>basic_fstream<wchar_t, char_traits<wchar_t>></code> >	86
7-140 libstdcxx - Class <code>basic_fstream<wchar_t, char_traits<wchar_t>></code> > Function Interfaces	87
7-141 Primary vtable for <code>basic_ifstream<char, char_traits<char>></code> >	87
7-142 Secondary vtable for <code>basic_ifstream<char, char_traits<char>></code> >	87
7-143 VTT for <code>basic_ifstream<char, char_traits<char>></code> >	88
7-144 libstdcxx - Class <code>basic_ifstream<char, char_traits<char>></code> > Function Interfaces	88
7-145 Primary vtable for <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> >	88
7-146 Secondary vtable for <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> >	88
7-147 VTT for <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> >	89
7-148 libstdcxx - Class <code>basic_ifstream<wchar_t, char_traits<wchar_t>></code> > Function Interfaces	89
7-149 Primary vtable for <code>basic_ofstream<char, char_traits<char>></code> >	89
7-150 Secondary vtable for <code>basic_ofstream<char, char_traits<char>></code> >	90
7-151 VTT for <code>basic_ofstream<char, char_traits<char>></code> >	90
7-152 libstdcxx - Class <code>basic_ofstream<char, char_traits<char>></code> > Function Interfaces	90
7-153 Primary vtable for <code>basic_ofstream<wchar_t, char_traits<wchar_t>></code> >	91
7-154 Secondary vtable for <code>basic_ofstream<wchar_t, char_traits<wchar_t>></code> >	91
7-155 VTT for <code>basic_ofstream<wchar_t, char_traits<wchar_t>></code> >	91
7-156 libstdcxx - Class <code>basic_ofstream<wchar_t, char_traits<wchar_t>></code> > Function Interfaces	92
7-157 Primary vtable for <code>basic_streambuf<char, char_traits<char>></code> >	92
7-158 typeid for <code>basic_streambuf<char, char_traits<char>></code> >	93
7-159 libstdcxx - Class <code>basic_streambuf<char, char_traits<char>></code> > Function Interfaces	93
7-160 Primary vtable for <code>basic_streambuf<wchar_t, char_traits<wchar_t>></code> >	94
7-161 typeid for <code>basic_streambuf<wchar_t, char_traits<wchar_t>></code> >	95
7-162 libstdcxx - Class <code>basic_streambuf<wchar_t, char_traits<wchar_t>></code> > Function Interfaces	95
7-163 Primary vtable for <code>basic_filebuf<char, char_traits<char>></code> >	96
7-164 typeid for <code>basic_filebuf<char, char_traits<char>></code> >	97
7-165 libstdcxx - Class <code>basic_filebuf<char, char_traits<char>></code> > Function Interfaces	97
7-166 Primary vtable for <code>basic_filebuf<wchar_t, char_traits<wchar_t>></code> >	98
7-167 typeid for <code>basic_filebuf<wchar_t, char_traits<wchar_t>></code> >	99
7-168 libstdcxx - Class <code>basic_filebuf<wchar_t, char_traits<wchar_t>></code> > 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.....	101
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.....	102
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.....	103
7-179	typeinfo for messages_base.....	103
7-180	Primary vtable for messages<char>.....	104
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>.....	106
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>.....	110
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>.....	111
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.....	113
7-204	Primary vtable for codecvt<char, char, __mbstate_t>.....	113
7-205	typeinfo for codecvt<char, char, __mbstate_t>.....	114
7-206	Primary vtable for __codecvt_abstract_base<char, char, __mbstate_t>.....	114
7-207	libstdcxx - Class codecvt<char, char, __mbstate_t> Function Interfaces.....	115
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>.....	117
7-212	typeinfo for codecvt_byname<char, char, __mbstate_t>.....	117
7-213	libstdcxx - Class codecvt_byname<char, char, __mbstate_t> Function Interfaces.....	118
7-214	Primary vtable for codecvt_byname<wchar_t, char, __mbstate_t>.....	118
7-215	typeinfo for codecvt_byname<wchar_t, char, __mbstate_t>.....	119
7-216	Primary vtable for collate_byname<wchar_t>.....	119
7-217	typeinfo for collate_byname<wchar_t>.....	120
7-218	libstdcxx - Class codecvt_byname<wchar_t, char, __mbstate_t> Function Interfaces.....	120
7-219	Primary vtable for collate<char>.....	120

7-220	typeinfo for <code>collate<char></code>	121
7-221	<code>libstdcxx</code> - Class <code>collate<char></code> Function Interfaces	121
7-222	Primary vtable for <code>collate<wchar_t></code>	121
7-223	typeinfo for <code>collate<wchar_t></code>	122
7-224	<code>libstdcxx</code> - Class <code>collate<wchar_t></code> Function Interfaces	122
7-225	Primary vtable for <code>collate_byname<char></code>	122
7-226	typeinfo for <code>collate_byname<char></code>	123
7-227	<code>libstdcxx</code> - Class <code>collate_byname<char></code> Function Interfaces	123
7-228	typeinfo for <code>time_base</code>	123
7-229	Primary vtable for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char>>></code>	124
7-230	typeinfo for <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char>>></code>	125
7-231	<code>libstdcxx</code> - Class <code>time_get_byname<char, istreambuf_iterator<char, char_traits<char>>></code> Function Interfaces	125
7-232	Primary vtable for <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>	126
7-233	typeinfo for <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>	127
7-234	<code>libstdcxx</code> - Class <code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> Function Interfaces	128
7-235	Primary vtable for <code>time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>></code>	128
7-236	typeinfo for <code>time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>></code>	129
7-237	<code>libstdcxx</code> - Class <code>time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>></code> Function Interfaces	129
7-238	Primary vtable for <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>	129
7-239	typeinfo for <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>	130
7-240	<code>libstdcxx</code> - Class <code>time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> Function Interfaces	130
7-241	Primary vtable for <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code>	131
7-242	<code>libstdcxx</code> - Class <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code> Function Interfaces	132
7-243	Primary vtable for <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>	133
7-244	<code>libstdcxx</code> - Class <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> Function Interfaces	134
7-245	<code>libstdcxx</code> - Class <code>time_put<char, ostreambuf_iterator<char, char_traits<char>>></code> Function Interfaces	135
7-246	<code>libstdcxx</code> - Class <code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> Function Interfaces	135
7-247	Primary vtable for <code>moneypunct<char, false></code>	135
7-248	<code>libstdcxx</code> - Class <code>moneypunct<char, false></code> Function Interfaces	136
7-249	Primary vtable for <code>moneypunct<char, true></code>	137
7-250	<code>libstdcxx</code> - Class <code>moneypunct<char, true></code> Function Interfaces	137
7-251	Primary vtable for <code>moneypunct<wchar_t, false></code>	138
7-252	<code>libstdcxx</code> - Class <code>moneypunct<wchar_t, false></code> Function Interfaces	139
7-253	Primary vtable for <code>moneypunct<wchar_t, true></code>	139
7-254	<code>libstdcxx</code> - Class <code>moneypunct<wchar_t, true></code> Function Interfaces	140

7-255 Primary vtable for money_punct_byname<char, false>	141
7-256 typeid for money_punct_byname<char, false>	141
7-257 libstdcxx - Class money_punct_byname<char, false> Function Interfaces	142
7-258 Primary vtable for money_punct_byname<char, true>	142
7-259 typeid for money_punct_byname<char, true>	143
7-260 libstdcxx - Class money_punct_byname<char, true> Function Interfaces	143
7-261 Primary vtable for money_punct_byname<wchar_t, false>	143
7-262 typeid for money_punct_byname<wchar_t, false>	144
7-263 libstdcxx - Class money_punct_byname<wchar_t, false> Function Interfaces	144
7-264 Primary vtable for money_punct_byname<wchar_t, true>	145
7-265 typeid for money_punct_byname<wchar_t, true>	145
7-266 libstdcxx - Class money_punct_byname<wchar_t, true> Function Interfaces	146
7-267 typeid for money_base	146
7-268 Primary vtable for money_get<char, istreambuf_iterator<char, char_traits<char> > >	146
7-269 typeid for money_get<char, istreambuf_iterator<char, char_traits<char> > >	147
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> > >	148
7-272 typeid for money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >	149
7-273 libstdcxx - Class money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	149
7-274 Primary vtable for money_put<char, ostreambuf_iterator<char, char_traits<char> > >	149
7-275 typeid for money_put<char, ostreambuf_iterator<char, char_traits<char> > >	150
7-276 libstdcxx - Class money_put<char, ostreambuf_iterator<char, char_traits<char> > > Function Interfaces	150
7-277 Primary vtable for money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >	151
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	152
7-280 libstdcxx - Class locale Function Interfaces	152
7-281 Primary vtable for locale::facet	153
7-282 typeid for locale::facet	153
7-283	153
7-284 libstdcxx - Class num_get<char, istreambuf_iterator<char, char_traits<char> > > Function Interfaces	154
7-285 libstdcxx - Class num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > > Function Interfaces	154
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	155
7-288 libstdcxx - Class gslice Function Interfaces	156
7-289 libstdcxx - Class __basic_file<char> Function Interfaces	156
7-290 libstdcxx - Class valarray<unsigned int> Function Interfaces	157

Foreword

This is version 3.0 of the Linux Standard Base C++ Specification for PPC64. 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 64 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 long)(GLIBCXX_3.4) [1]
operator new[](unsigned long, nothrow_t const&)(GLIBCXX_3.4) [1]
operator new(unsigned long)(GLIBCXX_3.4) [1]
operator new(unsigned long, 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(long, __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(long, 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(long, __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(long, 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(long, __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(long, 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(long, __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(long, 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(long, __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(long, 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(long, __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(long, 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*, long)</code>
vfunc[4]:	<code>basic_filebuf<char, char_traits<char>>::seekoff(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*, long)
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*, long)
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*, long)
vfunc[4]:	basic_filebuf<wchar_t, char_traits<wchar_t>>::setbuf(wchar_t*, long)

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*, long)
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*, long)
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 long)(GLIBCXX_3.4.2)</code> [1]
<code>__gnu_cxx::__pool_alloc_base::_M_refill(unsigned long)(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
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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 typeid for runtime_error

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid 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	typeid 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 typeid for overflow_error

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid 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 `libstdcxx` - 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 long)(GLIBCXX_3.4) [1]
ctype<char>::ctype(unsigned short const*, bool, unsigned long)(GLIBCXX_3.4) [1]
ctype<char>::ctype(__locale_struct*, unsigned short const*, bool, unsigned long)(GLIBCXX_3.4) [1]
ctype<char>::ctype(unsigned short const*, bool, unsigned long)(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 long)(GLIBCXX_3.4) [1]</code>
<code>ctype<wchar_t>::ctype(unsigned long)(GLIBCXX_3.4) [1]</code>
<code>ctype<wchar_t>::ctype(__locale_struct*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>ctype<wchar_t>::ctype(unsigned long)(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	typeinfo for <code>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 long)(GLIBCXX_3.4)</code> [1]
<code>ctype_byname<char>::ctype_byname(char const*, unsigned long)(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 long)(GLIBCXX_3.4)</code> [1]
<code>ctype_byname<wchar_t>::ctype_byname(char const*, unsigned long)(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 long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_of(char const*, unsigned long, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>> >::find_last_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_of(char, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_of(char const*, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_of(char const*, unsigned long, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>> >::find_first_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_of(char, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_not_of(char const*, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_not_of(char const*, unsigned long, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>> >::find_last_not_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_last_not_of(char, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_not_of(char const*, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_not_of(char const*, unsigned long, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>> >::find_first_not_of(basic_string<char, char_traits<char>, allocator<char>> const&, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::find_first_not_of(char, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<char, char_traits<char>, allocator<char>>::at(unsigned long) const(GLIBCXX_3.4) [1]</code>

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

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

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

[illegible]

<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::substr(unsigned long, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(unsigned long, unsigned long, wchar_t const*) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(unsigned long, unsigned long, wchar_t const*, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::compare(unsigned long, unsigned long, 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 long, unsigned long, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>> const&, unsigned long, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_M_check(unsigned long, char const*) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_M_limit(unsigned long, unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::operator[](unsigned long) const(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_S_construct(unsigned long, 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 long, unsigned long, unsigned long, wchar_t)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_M_replace_safe(unsigned long, unsigned long, wchar_t const*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::at(unsigned long)(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 long)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::_Rep::_S_create(unsigned long, unsigned long, allocator<wchar_t> const&)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::erase(unsigned long, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::append(wchar_t const*, unsigned long)(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>> ></code>

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

>::operator[](unsigned long)(GLIBCXX_3.4) [1]

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	104
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	-16
Virtual Base Offset	88
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	-104
-------------	------

Virtual Base Offset	-104
RTTI	typeinfo for basic_stringstream<char, char_traits<char>, allocator<char> >
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 libstdc++ - 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]. Itanium C++ ABI

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	104
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	-16
Virtual Base Offset	88
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	-104
Virtual Base Offset	-104
RTTI	typeinfo for <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> ></code>
<code>vfunc[0]:</code>	virtual thunk to <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_stringstream()</code>
<code>vfunc[1]:</code>	virtual thunk to <code>basic_stringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_stringstream()</code>

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

Referenced Specification(s)

[1]. Itanium C++ ABI

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	96
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	-96
Virtual Base Offset	-96
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</code>
----------	--

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

Referenced Specification(s)

[1]. Itanium C++ ABI

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	96
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	-96
Virtual Base Offset	-96
RTTI	typeinfo for <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> ></code>
<code>vfunc[0]:</code>	virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()</code>
<code>vfunc[1]:</code>	virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()</code>

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	<code>_ZTTSt19basic_istreamIwSt11char_traitsIwESaIwEE</code>
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 <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_istream<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::~~basic_istream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. Itanium C++ ABI

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	88
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	-88
Virtual Base Offset	-88
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 <code>basic_ostringstream<char, char_traits<char>, allocator<char>>::~~basic_ostringstream()(GLIBCXX_3.4)</code> [1]
virtual thunk to <code>basic_ostringstream<char, char_traits<char>, allocator<char>>::~~basic_ostringstream()(GLIBCXX_3.4)</code> [1]

Referenced Specification(s)

[1]. Itanium C++ ABI

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	88
RTTI	typeinfo for <code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>></code>
vfunc[0]:	<code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~~basic_ostringstream()</code>
vfunc[1]:	<code>basic_ostringstream<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>::~basic_ostringstream()</code>

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

Base Offset	-88
Virtual Base Offset	-88

RTTI	typeid 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 libstdc++ - 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]. Itanium C++ ABI

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

	const*, long)
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 __cxxabiv1::__si_class_type_info
Name	typeid name for basic_stringbuf<char, char_traits<char>, allocator<char> >

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

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

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

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

vfunc[12]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, long)
vfunc[13]:	basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> >::overflow(unsigned int)

The Run Time Type Information for the std::basic_stringbuf<wchar_t, std::char_traits<wchar_t>, std::allocator<wchar_t> > class is described by Table 7-103

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

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

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 libstdc++ - Class basic_stringbuf<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > Function Interfaces

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

Referenced Specification(s)

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

7.1.68 Class basic_istream<char, char_traits<char> >

7.1.68.1 Class data for basic_istream<char, char_traits<char> >

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

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

Base Offset	0
Virtual Base Offset	24
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 7-106 Secondary vtable for `basic_istream<char, char_traits<char> >`

Base Offset	-16
Virtual Base Offset	8
RTTI	typeinfo for <code>basic_istream<char, char_traits<char> ></code>
vfunc[0]:	non-virtual thunk to <code>basic_istream<char, char_traits<char> >::~~basic_istream()</code>
vfunc[1]:	non-virtual thunk to <code>basic_istream<char, char_traits<char> >::~~basic_istream()</code>

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

Base Offset	-24
Virtual Base Offset	-24
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 7-108

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

VTT Name	<code>_ZTTSd</code>
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 libstdcxx - Class `basic_iostream<char, char_traits<char> >` Function Interfaces

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

Referenced Specification(s)

[1]. Itanium C++ ABI

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

7.1.69.1 Class data for `basic_iostream<wchar_t, char_traits<wchar_t> >`

The virtual table for the `std::basic_iostream<wchar_t, std::char_traits<wchar_t> >` class is described by Table 7-110

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

Base Offset	0
Virtual Base Offset	24
RTTI	typeinfo for <code>basic_iostream<wchar_t, char_traits<wchar_t> ></code>
vfunc[0]:	<code>basic_iostream<wchar_t, char_traits<wchar_t> >::~basic_iostream()</code>
vfunc[1]:	<code>basic_iostream<wchar_t, char_traits<wchar_t> >::~basic_iostream()</code>

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

Base Offset	-16
Virtual Base Offset	8
RTTI	typeinfo for <code>basic_iostream<wchar_t, char_traits<wchar_t> ></code>
vfunc[0]:	non-virtual thunk to <code>basic_iostream<wchar_t, char_traits<wchar_t> ></code>

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

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

Base Offset	-24
Virtual Base Offset	-24
RTTI	typeinfo for basic_istream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	virtual thunk to basic_istream<wchar_t, 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 7-113

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

VTT Name	_ZTTSt14basic_istreamIwSt11char_traitsIwEE
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 basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()(GLIBCXX_3.4) [1]
non-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]
virtual thunk to basic_istream<wchar_t, char_traits<wchar_t> >::~~basic_istream()(GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. Itanium C++ ABI

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	16
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	-16
Virtual Base Offset	-16
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 libstdc++ - Class `basic_istream<char, char_traits<char> >` Function Interfaces

<code>basic_istream<char, char_traits<char> >::get(char*, long)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::get(char*, long, char)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::read(char*, long)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::seekg(long, _Ios_Seekdir)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::ignore(long, int)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::getline(char*, long)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::getline(char*, long, char)(GLIBCXX_3.4) [1]</code>
<code>basic_istream<char, char_traits<char> >::readsomeline(char*, long)(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	16
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	-16
-------------	-----

Virtual Base Offset	-16
RTTI	typeinfo for basic_istream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	virtual thunk to basic_istream<wchar_t, 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*, long)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::get(wchar_t*, long, wchar_t)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::read(wchar_t*, long)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::seekg(long, _Ios_Seekdir)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::ignore(long, unsigned int)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::getline(wchar_t*, long)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::getline(wchar_t*, long, wchar_t)(GLIBCXX_3.4) [1]
basic_istream<wchar_t, char_traits<wchar_t> >::readsome(wchar_t*,

long)(GLIBCXX_3.4) [1]
virtual thunk to basic_istream<wchar_t, char_traits<wchar_t>>::~basic_istream()(GLIBCXX_3.4) [2]
virtual thunk to basic_istream<wchar_t, char_traits<wchar_t>>::~basic_istream()(GLIBCXX_3.4) [2]

Referenced Specification(s)

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

[2]. Itanium C++ ABI

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 libstdc++ - 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 libstdc++ - 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	8
RTTI	typeinfo for basic_ostream<char, char_traits<char> >
vfunc[0]:	basic_ostream<char, char_traits<char> >::~~basic_ostream()
vfunc[1]:	basic_ostream<char, char_traits<char> >::~~basic_ostream()

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

Base Offset	-8
Virtual Base Offset	-8
RTTI	typeinfo for basic_ostream<char, char_traits<char> >

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

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	_ZTTS0
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 libstdc++ - Class basic_ostream<char, char_traits<char> > Function Interfaces

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

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	8

RTTI	typeinfo for basic_ostream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	basic_ostream<wchar_t, char_traits<wchar_t> >::~basic_ostream()
vfunc[1]:	basic_ostream<wchar_t, char_traits<wchar_t> >::~basic_ostream()

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

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

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	_ZTTSt13basic_ostreamIwSt11char_traitsIwEE
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

basic_ostream<wchar_t, char_traits<wchar_t> >::seekp(long, _Ios_Seekdir)(GLIBCXX_3.4) [1]
basic_ostream<wchar_t, char_traits<wchar_t> >::write(wchar_t const*, long)(GLIBCXX_3.4) [1]
virtual thunk to basic_ostream<wchar_t, char_traits<wchar_t> >

>::~basic_ostream()(GLIBCXX_3.4) [2]
virtual thunk to basic_ostream<wchar_t, char_traits<wchar_t>> >::~basic_ostream()(GLIBCXX_3.4) [2]

Referenced Specification(s)

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

[2]. Itanium C++ ABI

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	264
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	-16
Virtual Base Offset	248
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	-264
Virtual Base Offset	-264
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 libstdc++ - Class basic_fstream<char, char_traits<char> > Function Interfaces

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

Referenced Specification(s)

[1]. Itanium C++ ABI

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	264
RTTI	typeinfo for basic_fstream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	basic_fstream<wchar_t, char_traits<wchar_t>

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

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

Base Offset	-16
Virtual Base Offset	248
RTTI	typeinfo for basic_fstream<wchar_t, char_traits<wchar_t> >
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	-264
Virtual Base Offset	-264
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 libstdc++ - Class `basic_fstream<wchar_t, char_traits<wchar_t> >` Function Interfaces

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

Referenced Specification(s)

[1]. Itanium C++ ABI

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	256
RTTI	typeinfo for <code>basic_ifstream<char, char_traits<char> ></code>
vfunc[0]:	<code>basic_ifstream<char, char_traits<char> >::~~basic_ifstream()</code>
vfunc[1]:	<code>basic_ifstream<char, char_traits<char> >::~~basic_ifstream()</code>

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

Base Offset	-256
Virtual Base Offset	-256
RTTI	typeinfo for <code>basic_ifstream<char, char_traits<char> ></code>
vfunc[0]:	virtual thunk to <code>basic_ifstream<char, char_traits<char> >::~~basic_ifstream()</code>
vfunc[1]:	virtual thunk to <code>basic_ifstream<char, char_traits<char> >::~~basic_ifstream()</code>

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	<code>_ZTTSt14basic_ifstreamIcSt11char_traitsIcEE</code>
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> >::~basic_ifstream()</code> (GLIBCXX_3.4) [1]
virtual thunk to <code>basic_ifstream<char, char_traits<char> >::~basic_ifstream()</code> (GLIBCXX_3.4) [1]

Referenced Specification(s)

[1]. Itanium C++ ABI

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	256
RTTI	<code>typeinfo</code> for <code>basic_ifstream<wchar_t, char_traits<wchar_t> ></code>
<code>vfunc[0]:</code>	<code>basic_ifstream<wchar_t, char_traits<wchar_t> >::~basic_ifstream()</code>
<code>vfunc[1]:</code>	<code>basic_ifstream<wchar_t, char_traits<wchar_t> >::~basic_ifstream()</code>

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

Base Offset	-256
Virtual Base Offset	-256

RTTI	typeid for basic_ifstream<wchar_t, char_traits<wchar_t> >
vfunc[0]:	virtual thunk to basic_ifstream<wchar_t, char_traits<wchar_t> >::~~basic_ifstream()
vfunc[1]:	virtual thunk to basic_ifstream<wchar_t, char_traits<wchar_t> >::~~basic_ifstream()

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	_ZTTSt14basic_ifstreamIwSt11char_traitsIwEE
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 libstdcxx - Class basic_ifstream<wchar_t, char_traits<wchar_t> > Function Interfaces

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

Referenced Specification(s)

[1]. Itanium C++ ABI

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	248
RTTI	typeid for basic_ofstream<char,

	char_traits<char> >
vfunc[0]:	basic_ofstream<char, char_traits<char> >::~~basic_ofstream()
vfunc[1]:	basic_ofstream<char, char_traits<char> >::~~basic_ofstream()

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

Base Offset	-248
Virtual Base Offset	-248
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]. Itanium C++ ABI

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	248
RTTI	typeinfo for <code>basic_ofstream<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	<code>basic_ofstream<wchar_t, char_traits<wchar_t>>::~~basic_ofstream()</code>
vfunc[1]:	<code>basic_ofstream<wchar_t, char_traits<wchar_t>>::~~basic_ofstream()</code>

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

Base Offset	-248
Virtual Base Offset	-248
RTTI	typeinfo for <code>basic_ofstream<wchar_t, char_traits<wchar_t>></code>
vfunc[0]:	virtual thunk to <code>basic_ofstream<wchar_t, char_traits<wchar_t>>::~~basic_ofstream()</code>
vfunc[1]:	virtual thunk to <code>basic_ofstream<wchar_t, char_traits<wchar_t>>::~~basic_ofstream()</code>

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	<code>_ZTTSt14basic_ofstreamIwSt11char_traitsIwEE</code>
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 libstdc++ - Class `basic_ofstream<wchar_t, char_traits<wchar_t>>` Function Interfaces

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

Referenced Specification(s)

[1]. Itanium C++ ABI

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	<code>typeinfo</code> 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*, long)</code>
<code>vfunc[4]:</code>	<code>basic_streambuf<char, char_traits<char>>::seekoff(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>

vfunc[7]:	basic_streambuf<char, char_traits<char> >::showmanyc()
vfunc[8]:	basic_streambuf<char, char_traits<char> >::xsgetn(char*, long)
vfunc[9]:	basic_streambuf<char, char_traits<char> >::underflow()
vfunc[10]:	basic_streambuf<char, char_traits<char> >::uflow()
vfunc[11]:	basic_streambuf<char, char_traits<char> >::pbackfail(int)
vfunc[12]:	basic_streambuf<char, char_traits<char> >::xspn(char const*, long)
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, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::sgetn(char*, long)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::spn(char const*, long)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::setbuf(char*, long)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::xsgetn(char*, long)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::xspn(char const*,

long)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::seekoff(long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]
basic_streambuf<char, char_traits<char> >::pubsetbuf(char*, long)(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 <code>basic_streambuf<wchar_t, char_traits<wchar_t> ></code>
vfunc[0]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::~~basic_streambuf()</code>
vfunc[1]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::~~basic_streambuf()</code>
vfunc[2]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&)</code>
vfunc[3]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::setbuf(wchar_t*, long)</code>
vfunc[4]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::seekoff(long, _Ios_Seekdir, _Ios_Openmode)</code>
vfunc[5]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)</code>
vfunc[6]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::sync()</code>
vfunc[7]:	<code>basic_streambuf<wchar_t, char_traits<wchar_t> >::showmanyc()</code>

vfunc[8]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, long)
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> >::xspn(wchar_t const*, long)
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 typeid for `basic_streambuf<wchar_t, char_traits<wchar_t> >`

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

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

long)(GLIBCXX_3.4) [1]
basic_streambuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, long)(GLIBCXX_3.4) [1]
basic_streambuf<wchar_t, char_traits<wchar_t> >::seekoff(long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]
basic_streambuf<wchar_t, char_traits<wchar_t> >::pubsetbuf(wchar_t*, long)(GLIBCXX_3.4) [1]

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 basic_filebuf<char, char_traits<char> >
vfunc[0]:	basic_filebuf<char, char_traits<char> >::~~basic_filebuf()
vfunc[1]:	basic_filebuf<char, char_traits<char> >::~~basic_filebuf()
vfunc[2]:	basic_filebuf<char, char_traits<char> >::imbue(locale const&)
vfunc[3]:	basic_filebuf<char, char_traits<char> >::setbuf(char*, long)
vfunc[4]:	basic_filebuf<char, char_traits<char> >::seekoff(long, _Ios_Seekdir, _Ios_Openmode)
vfunc[5]:	basic_filebuf<char, char_traits<char> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)
vfunc[6]:	basic_filebuf<char, char_traits<char> >::sync()
vfunc[7]:	basic_filebuf<char, char_traits<char> >::showmanyc()
vfunc[8]:	basic_filebuf<char, char_traits<char> >::xsgetn(char*, long)
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*, long)
vfunc[13]:	basic_filebuf<char, char_traits<char> >::overflow(int)

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 __cxxabiv1::__si_class_type_info
Name	typeid name for basic_filebuf<char, char_traits<char> >

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

An LSB conforming implementation shall provide the architecture specific methods for Class std::basic_filebuf<char, std::char_traits<char> > specified in Table 7-165, 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

basic_filebuf<char, char_traits<char> >::M_set_buffer(long)(GLIBCXX_3.4) [1]
basic_filebuf<char, char_traits<char> >::M_convert_to_external(char*, long)(GLIBCXX_3.4) [1]
basic_filebuf<char, char_traits<char> >::setbuf(char*, long)(GLIBCXX_3.4) [1]
basic_filebuf<char, char_traits<char> >::xsgetn(char*, long)(GLIBCXX_3.4) [1]
basic_filebuf<char, char_traits<char> >::xsputn(char const*, long)(GLIBCXX_3.4) [1]
basic_filebuf<char, char_traits<char> >::M_seek(long, _Ios_Seekdir, __mbstate_t)(GLIBCXX_3.4) [1]
basic_filebuf<char, char_traits<char> >::seekoff(long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]

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	typeinfo for basic_filebuf<wchar_t, char_traits<wchar_t> >
vfunc[0]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::~basic_filebuf()
vfunc[1]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::~basic_filebuf()
vfunc[2]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::imbue(locale const&)
vfunc[3]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::setbuf(wchar_t*, long)
vfunc[4]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::seekoff(long, _Ios_Seekdir, _Ios_Openmode)
vfunc[5]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::seekpos(fpos<__mbstate_t>, _Ios_Openmode)
vfunc[6]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::sync()
vfunc[7]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::showmanyc()
vfunc[8]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, long)
vfunc[9]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::underflow()
vfunc[10]:	basic_streambuf<wchar_t, char_traits<wchar_t> >::uflow()
vfunc[11]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::pbackfail(unsigned int)

vfunc[12]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, long)
vfunc[13]:	basic_filebuf<wchar_t, char_traits<wchar_t> >::overflow(unsigned int)

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

Table 7-167 typeid for basic_filebuf<wchar_t, char_traits<wchar_t> >

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for basic_filebuf<wchar_t, char_traits<wchar_t> >

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

basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_set_buffer(long)(GLIBCXX_3.4) [1]
basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_convert_to_external(wchar_t*, long)(GLIBCXX_3.4) [1]
basic_filebuf<wchar_t, char_traits<wchar_t> >::setbuf(wchar_t*, long)(GLIBCXX_3.4) [1]
basic_filebuf<wchar_t, char_traits<wchar_t> >::xsgetn(wchar_t*, long)(GLIBCXX_3.4) [1]
basic_filebuf<wchar_t, char_traits<wchar_t> >::xsputn(wchar_t const*, long)(GLIBCXX_3.4) [1]
basic_filebuf<wchar_t, char_traits<wchar_t> >::_M_seek(long, _Ios_Seekdir, __mbstate_t)(GLIBCXX_3.4) [1]
basic_filebuf<wchar_t, char_traits<wchar_t> >::seekoff(long, _Ios_Seekdir, _Ios_Openmode)(GLIBCXX_3.4) [1]
basic_ostream<wchar_t, char_traits<wchar_t> >::_M_write(wchar_t const*, long)(GLIBCXX_3.4) [1]
virtual thunk to basic_fstream<wchar_t, char_traits<wchar_t> >::~basic_fstream()(GLIBCXX_3.4) [2]

Referenced Specification(s)

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

[2]. Itanium C++ ABI

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 `typeinfo` for `ios_base`

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

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	<code>typeinfo</code> for <code>basic_ios<char, char_traits<char>></code>
<code>vfunc[0]:</code>	<code>basic_ios<char, char_traits<char>>::~~basic_ios()</code>
<code>vfunc[1]:</code>	<code>basic_ios<char, char_traits<char>>::~~basic_ios()</code>

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	<code>typeid</code> for <code>ios_base::failure</code>
<code>vfunc[0]:</code>	<code>ios_base::failure::~~failure()</code>
<code>vfunc[1]:</code>	<code>ios_base::failure::~~failure()</code>
<code>vfunc[2]:</code>	<code>ios_base::failure::what() const</code>

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

Table 7-172 `typeid` for `ios_base::failure`

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

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	<code>typeid</code> for <code>__timepunct<char></code>
<code>vfunc[0]:</code>	<code>__timepunct<char>::~~__timepunct()</code>
<code>vfunc[1]:</code>	<code>__timepunct<char>::~~__timepunct()</code>

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

Table 7-174 `typeid` for `__timepunct<char>`

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

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 libstdcxx - Class `__timepunct<char>` Function Interfaces

<code>__timepunct<char>::M_put(char*, unsigned long, char const*, tm const*)</code> const(GLIBCXX_3.4) [1]
<code>__timepunct<char>::__timepunct(__locale_struct*, char const*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>__timepunct<char>::__timepunct(__timepunct_cache<char>*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>__timepunct<char>::__timepunct(unsigned long)</code> (GLIBCXX_3.4) [1]
<code>__timepunct<char>::__timepunct(__locale_struct*, char const*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>__timepunct<char>::__timepunct(__timepunct_cache<char>*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>__timepunct<char>::__timepunct(unsigned long)</code> (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 __timepunct<wchar_t>
------	---

7.1.91.2 Interfaces for Class __timepunct<wchar_t>

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

Table 7-178 libstdcxx - Class __timepunct<wchar_t> Function Interfaces

__timepunct<wchar_t>::__M_put(wchar_t*, unsigned long, wchar_t const*, tm const*) const(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__timepunct_cache<wchar_t>*, unsigned long)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(unsigned long)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(__timepunct_cache<wchar_t>*, unsigned long)(GLIBCXX_3.4) [1]
__timepunct<wchar_t>::__timepunct(unsigned long)(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 libstdcxx - 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	typeid for messages<char>
vfunc[0]:	messages<char>::~~messages()
vfunc[1]:	messages<char>::~~messages()
vfunc[2]:	messages<char>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const
vfunc[3]:	messages<char>::do_get(int, int, int, basic_string<char, char_traits<char>, allocator<char> > const&) const
vfunc[4]:	messages<char>::do_close(int) const

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 libstdc++ - Class messages<char> Function Interfaces

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

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

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	typeinfo for messages_byname<char>
vfunc[0]:	messages_byname<char>::~messages_byname()
vfunc[1]:	messages_byname<char>::~messages_byname()
vfunc[2]:	messages<char>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const

	allocator<char> > const&, locale const&) const
vfunc[3]:	messages<char>::do_get(int, int, int, basic_string<char, char_traits<char>, allocator<char> > const&) const
vfunc[4]:	messages<char>::do_close(int) const

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

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

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

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 libstdc++ - Class `messages_byname<char>` Function Interfaces

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

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	typeid for <code>messages_byname<wchar_t></code>
vfunc[0]:	<code>messages_byname<wchar_t>::~~messages_byname()</code>
vfunc[1]:	<code>messages_byname<wchar_t>::~~messages_byname()</code>

vfunc[2]:	messages<wchar_t>::do_open(basic_string<char, char_traits<char>, allocator<char> > const&, locale const&) const
vfunc[3]:	messages<wchar_t>::do_get(int, int, int, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t> > const&) const
vfunc[4]:	messages<wchar_t>::do_close(int) const

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 __cxxabiv1::__si_class_type_info
Name	typeid name for messages_byname<wchar_t>

7.1.96.2 Interfaces for Class messages_byname<wchar_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::messages_byname<wchar_t> specified in 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

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

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 numpunct<char>
vfunc[0]:	numpunct<char>::~~numpunct()
vfunc[1]:	numpunct<char>::~~numpunct()

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<char> class is described by Table 7-191

Table 7-191 typeid for numpunct<char>

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

7.1.97.2 Interfaces for Class numpunct<char>

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

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

numpunct<char>::numpunct(__locale_struct*, unsigned long)(GLIBCXX_3.4) [1]
numpunct<char>::numpunct(__numpunct_cache<char>*, unsigned long)(GLIBCXX_3.4) [2]
numpunct<char>::numpunct(unsigned long)(GLIBCXX_3.4) [2]
numpunct<char>::numpunct(__locale_struct*, unsigned long)(GLIBCXX_3.4) [1]
numpunct<char>::numpunct(__numpunct_cache<char>*, unsigned long)(GLIBCXX_3.4) [2]
numpunct<char>::numpunct(unsigned long)(GLIBCXX_3.4) [2]

Referenced Specification(s)

[1]. Itanium C++ ABI

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

7.1.98 Class numpunct<wchar_t>

7.1.98.1 Class data for numpunct<wchar_t>

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

Table 7-193 Primary vtable for numpunct<wchar_t>

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

Virtual Base Offset	0
RTTI	typeinfo for numpunct<wchar_t>
vfunc[0]:	numpunct<wchar_t>::~~numpunct()
vfunc[1]:	numpunct<wchar_t>::~~numpunct()
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<wchar_t>` class is described by Table 7-194

Table 7-194 typeinfo for numpunct<wchar_t>

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

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 libstdcxx - Class `numpunct<wchar_t>` Function Interfaces

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

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	<code>typeid</code> for <code>numpunct_byname<char></code>
<code>vfunc[0]:</code>	<code>numpunct_byname<char>::~~numpunct_byname()</code>
<code>vfunc[1]:</code>	<code>numpunct_byname<char>::~~numpunct_byname()</code>
<code>vfunc[2]:</code>	<code>numpunct<char>::do_decimal_point() 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::numpunct_byname<char>` class is described by Table 7-197

Table 7-197 `typeid` for `numpunct_byname<char>`

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

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 `libstdcxx` - Class `numpunct_byname<char>` Function Interfaces

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

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	typeinfo for <code>numpunct_byname<wchar_t></code>
<code>vfunc[0]:</code>	<code>numpunct_byname<wchar_t>::~~numpunct_byname()</code>
<code>vfunc[1]:</code>	<code>numpunct_byname<wchar_t>::~~numpunct_byname()</code>
<code>vfunc[2]:</code>	<code>numpunct<wchar_t>::do_decimal_point() const</code>
<code>vfunc[3]:</code>	<code>numpunct<wchar_t>::do_thousands_sep() const</code>
<code>vfunc[4]:</code>	<code>numpunct<wchar_t>::do_grouping() const</code>
<code>vfunc[5]:</code>	<code>numpunct<wchar_t>::do_truename() const</code>
<code>vfunc[6]:</code>	<code>numpunct<wchar_t>::do_falsename() const</code>

The Run Time Type Information for the `std::numpunct_byname<wchar_t>` class is described by Table 7-200

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

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo 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 libstdcxx - Class `numpunct_byname<wchar_t>` Function Interfaces

<code>numpunct_byname<wchar_t>::numpunct_byname(char const*, unsigned</code>
--

long)(GLIBCXX_3.4) [1]

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

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 libstdcxx - 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	typeid for <code>__codecvt_abstract_base<wchar_t, 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>

7.1.102.2 Interfaces for Class `__codecvt_abstract_base<wchar_t, char, __mbstate_t>`

No external methods are defined for libstdcxx - Class

`std::__codecvt_abstract_base<wchar_t, char, __mbstate_t>`

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	<code>typeinfo</code> 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	<code>typeinfo</code> for <code>codecvt<char, char, __mbstate_t></code>
<code>vfunc[0]:</code>	<code>codecvt<char, char, __mbstate_t>::~~codecvt()</code>
<code>vfunc[1]:</code>	<code>codecvt<char, char, __mbstate_t>::~~codecvt()</code>
<code>vfunc[2]:</code>	<code>codecvt<char, char, __mbstate_t>::do_out(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code>
<code>vfunc[3]:</code>	<code>codecvt<char, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code>
<code>vfunc[4]:</code>	<code>codecvt<char, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code>
<code>vfunc[5]:</code>	<code>codecvt<char, char, __mbstate_t>::do_encoding() const</code>
<code>vfunc[6]:</code>	<code>codecvt<char, char, __mbstate_t>::do_always_noconv() const</code>

vfunc[7]:	codecvt<char, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned long) const
vfunc[8]:	codecvt<char, char, __mbstate_t>::do_max_length() const

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

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

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid 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	typeid for __codecvt_abstract_base<char, char, __mbstate_t>
vfunc[0]:	
vfunc[1]:	
vfunc[2]:	__cxa_pure_virtual
vfunc[3]:	__cxa_pure_virtual
vfunc[4]:	__cxa_pure_virtual
vfunc[5]:	__cxa_pure_virtual
vfunc[6]:	__cxa_pure_virtual
vfunc[7]:	__cxa_pure_virtual
vfunc[8]:	__cxa_pure_virtual

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 libstdc++ - Class `codecvt<char, char, __mbstate_t>` Function Interfaces

<code>codecvt<char, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned long) const</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(__locale_struct*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(unsigned long)</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(__locale_struct*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>codecvt<char, char, __mbstate_t>::codecvt(unsigned long)</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	<code>typeinfo</code> for <code>codecvt<wchar_t, char, __mbstate_t></code>
<code>vfunc[0]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::~~codecvt()</code>
<code>vfunc[1]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::~~codecvt()</code>
<code>vfunc[2]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::do_out(__mbstate_t&, wchar_t const*, wchar_t const*, wchar_t const*&, char*, char*, char*&) const</code>
<code>vfunc[3]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code>
<code>vfunc[4]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, wchar_t*, wchar_t*, wchar_t*&) const</code>
<code>vfunc[5]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::do_encoding() const</code>
<code>vfunc[6]:</code>	<code>codecvt<wchar_t, char,</code>

	<code>__mbstate_t::do_always_noconv()</code> const
<code>vfunc[7]:</code>	<code>codecvt<wchar_t, char,</code> <code>__mbstate_t::do_length(__mbstate_t&</code> <code>, char const*, char const*, unsigned</code> <code>long) const</code>
<code>vfunc[8]:</code>	<code>codecvt<wchar_t, char,</code> <code>__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 <code>__cxxabiv1::__si_class_type_info</code>
Name	typeid name for <code>codecvt<wchar_t,</code> <code>char, __mbstate_t></code>

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

<code>codecvt<wchar_t, char, __mbstate_t::do_length(__mbstate_t&, char const*, char const*, unsigned long) const</code> (GLIBCXX_3.4) [1]
<code>codecvt<wchar_t, char, __mbstate_t::codecvt(__locale_struct*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>codecvt<wchar_t, char, __mbstate_t::codecvt(unsigned long)</code> (GLIBCXX_3.4) [1]
<code>codecvt<wchar_t, char, __mbstate_t::codecvt(__locale_struct*, unsigned long)</code> (GLIBCXX_3.4) [1]
<code>codecvt<wchar_t, char, __mbstate_t::codecvt(unsigned long)</code> (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	typeinfo for <code>codecvt_byname<char, char, __mbstate_t></code>
<code>vfunc[0]:</code>	<code>codecvt_byname<char, char, __mbstate_t>::~~codecvt_byname()</code>
<code>vfunc[1]:</code>	<code>codecvt_byname<char, char, __mbstate_t>::~~codecvt_byname()</code>
<code>vfunc[2]:</code>	<code>codecvt<char, char, __mbstate_t>::do_out(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code>
<code>vfunc[3]:</code>	<code>codecvt<char, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code>
<code>vfunc[4]:</code>	<code>codecvt<char, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, char*, char*, char*&) const</code>
<code>vfunc[5]:</code>	<code>codecvt<char, char, __mbstate_t>::do_encoding() const</code>
<code>vfunc[6]:</code>	<code>codecvt<char, char, __mbstate_t>::do_always_noconv() const</code>
<code>vfunc[7]:</code>	<code>codecvt<char, char, __mbstate_t>::do_length(__mbstate_t&, char const*, char const*, unsigned long) const</code>
<code>vfunc[8]:</code>	<code>codecvt<char, char, __mbstate_t>::do_max_length() const</code>

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

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

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

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 `libstdcxx` - Class `codecvt_byname<char, char, __mbstate_t>` Function Interfaces

<code>codecvt_byname<char, char, __mbstate_t>::codecvt_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>codecvt_byname<char, char, __mbstate_t>::codecvt_byname(char const*, unsigned long)(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	<code>typeinfo for codecvt_byname<wchar_t, char, __mbstate_t></code>
<code>vfunc[0]:</code>	<code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()</code>
<code>vfunc[1]:</code>	<code>codecvt_byname<wchar_t, char, __mbstate_t>::~~codecvt_byname()</code>
<code>vfunc[2]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::do_out(__mbstate_t&, wchar_t const*, wchar_t const*, wchar_t const*&, char*, char*, char*&) const</code>
<code>vfunc[3]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::do_unshift(__mbstate_t&, char*, char*, char*&) const</code>
<code>vfunc[4]:</code>	<code>codecvt<wchar_t, char, __mbstate_t>::do_in(__mbstate_t&, char const*, char const*, char const*&, wchar_t*, wchar_t*, wchar_t*&) const</code>
<code>vfunc[5]:</code>	<code>codecvt<wchar_t, char,</code>

	<code>__mbstate_t::do_encoding() const</code>
<code>vfunc[6]:</code>	<code>codecvt<wchar_t, char, __mbstate_t::do_always_noconv() const</code>
<code>vfunc[7]:</code>	<code>codecvt<wchar_t, char, __mbstate_t::do_length(__mbstate_t&, char const*, char const*, unsigned long) const</code>
<code>vfunc[8]:</code>	<code>codecvt<wchar_t, char, __mbstate_t::do_max_length() const</code>

The Run Time Type Information for the `std::codecvt_byname<wchar_t, char, __mbstate_t>` class is described by Table 7-215

Table 7-215 typeid for `codecvt_byname<wchar_t, char, __mbstate_t>`

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

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	typeid for <code>collate_byname<wchar_t></code>
<code>vfunc[0]:</code>	<code>collate_byname<wchar_t>::~~collate_byname()</code>
<code>vfunc[1]:</code>	<code>collate_byname<wchar_t>::~~collate_byname()</code>
<code>vfunc[2]:</code>	<code>collate<wchar_t>::do_compare(wchar_t const*, wchar_t const*, wchar_t const*, wchar_t const*) const</code>
<code>vfunc[3]:</code>	<code>collate<wchar_t>::do_transform(wchar_t const*, wchar_t const*) const</code>
<code>vfunc[4]:</code>	<code>collate<wchar_t>::do_hash(wchar_t const*, wchar_t const*) const</code>

The Run Time Type Information for the `std::collate_byname<wchar_t>` class is described by Table 7-217

Table 7-217 typeid for collate_byname<wchar_t>

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

7.1.107.3 Interfaces for Class codecvt_byname<wchar_t, char, __mbstate_t>

An LSB conforming implementation shall provide the architecture specific methods for Class std::codecvt_byname<wchar_t, char, __mbstate_t> specified in 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

codecvt_byname<wchar_t, char, __mbstate_t>::codecvt_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]
codecvt_byname<wchar_t, char, __mbstate_t>::codecvt_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]
collate_byname<wchar_t>::collate_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]
collate_byname<wchar_t>::collate_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]

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	typeid for collate<char>
vfunc[0]:	collate<char>::~~collate()
vfunc[1]:	collate<char>::~~collate()
vfunc[2]:	collate<char>::do_compare(char const*, char const*, char const*) const
vfunc[3]:	collate<char>::do_transform(char const*, char const*) const

vfunc[4]:	collate<char>::do_hash(char const*, char const*) const
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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 __cxxabiv1::__si_class_type_info
Name	typeinfo name for collate<char>

7.1.108.2 Interfaces for Class collate<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::collate<char> specified in Table 7-221, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-221 libstdc++ - Class collate<char> Function Interfaces

collate<char>::_M_transform(char*, char const*, unsigned long) const(GLIBCXX_3.4) [1]
collate<char>::collate(__locale_struct*, unsigned long)(GLIBCXX_3.4) [1]
collate<char>::collate(unsigned long)(GLIBCXX_3.4) [1]
collate<char>::collate(__locale_struct*, unsigned long)(GLIBCXX_3.4) [1]
collate<char>::collate(unsigned long)(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
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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 libstdcxx - Class collate<wchar_t> Function Interfaces

collate<wchar_t>::M_transform(wchar_t*, wchar_t const*, unsigned long) const(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(__locale_struct*, unsigned long)(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(unsigned long)(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(__locale_struct*, unsigned long)(GLIBCXX_3.4) [1]
collate<wchar_t>::collate(unsigned long)(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 collate_byname<char>
vfunc[0]:	collate_byname<char>::~~collate_byname()
vfunc[1]:	collate_byname<char>::~~collate_byname()
vfunc[2]:	collate<char>::do_compare(char const*, char const*, char const*, char const*) const

vfunc[3]:	collate<char>::do_transform(char const*, char const*) const
vfunc[4]:	collate<char>::do_hash(char const*, char const*) const

The Run Time Type Information for the std::collate_byname<char> class is described by Table 7-226

Table 7-226 typeid for collate_byname<char>

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

7.1.110.2 Interfaces for Class collate_byname<char>

An LSB conforming implementation shall provide the architecture specific methods for Class std::collate_byname<char> specified in Table 7-227, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-227 libstdc++ - Class collate_byname<char> Function Interfaces

collate_byname<char>::collate_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]
collate_byname<char>::collate_byname(char const*, unsigned long)(GLIBCXX_3.4) [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 libstdc++ - 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 typeid for time_base

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

7.1.112.2 Interfaces for Class time_base

No external methods are defined for libstdc++ - 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	typeinfo for time_get_byname<char, istreambuf_iterator<char, char_traits<char>>>
vfunc[0]:	time_get_byname<char, istreambuf_iterator<char, 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<char, 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>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const
vfunc[5]:	time_get<char,

	<pre>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_istate&, tm*) const</pre>
vfunc[6]:	<pre>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_istate&, tm*) const</pre>
vfunc[7]:	<pre>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_istate&, tm*) const</pre>

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 <code>__cxxabiv1::__si_class_type_info</code>
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

<pre>time_get_byname<char, istreambuf_iterator<char, char_traits<char> > >::time_get_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]</pre>
<pre>time_get_byname<char, istreambuf_iterator<char, char_traits<char> ></pre>

>::time_get_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]

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, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>
vfunc[0]:	<code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::~~time_get_byname()</code>
vfunc[1]:	<code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::~~time_get_byname()</code>
vfunc[2]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::do_date_order() const</code>
vfunc[3]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::do_get_time(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_ostate&, tm*) const</code>
vfunc[4]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code> <code>>::do_get_date(istreambuf_iterator<wchar_t, char_traits<wchar_t>>,</code>

	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

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 libstdcxx - Class `time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>` Function Interfaces

<code>time_get_byname<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::time_get_byname(char const*, unsigned long)(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 long)(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	<code>typeinfo</code> for <code>time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>></code>
<code>vfunc[0]:</code>	<code>time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>::~~time_put_byname()</code>
<code>vfunc[1]:</code>	<code>time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>::~~time_put_byname()</code>
<code>vfunc[2]:</code>	<code>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</code>

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 typeid for time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>>

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 libstdc++ - Class time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>> Function Interfaces

time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>> >::time_put_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]
time_put_byname<char, ostreambuf_iterator<char, char_traits<char>>> >::time_put_byname(char const*, unsigned long)(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	typeid for time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>
vfunc[0]:	time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>

	>::~time_put_byname()
vfunc[1]:	time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > > >::~time_put_byname()
vfunc[2]:	time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > > >::do_put(ostreambuf_iterator<wchar_ t, char_traits<wchar_t> >, ios_base&, wchar_t, tm const*, char, char) const

The Run Time Type Information for the `std::time_put_byname<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > >` class is described by Table 7-239

Table 7-239 typeid for `time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >`

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
Name	typeid name for time_put_byname<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >

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 libstdc++ - 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 long)(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 long)(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	typeinfo for <code>time_get<char, istreambuf_iterator<char, char_traits<char>>></code>
<code>vfunc[0]:</code>	<code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::~~time_get()</code>
<code>vfunc[1]:</code>	<code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::~~time_get()</code>
<code>vfunc[2]:</code>	<code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_date_order() const</code>
<code>vfunc[3]:</code>	<code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get_time(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const</code>
<code>vfunc[4]:</code>	<code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get_date(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char, char_traits<char>>, ios_base&, _Ios_Iostate&, tm*) const</code>
<code>vfunc[5]:</code>	<code>time_get<char, istreambuf_iterator<char, char_traits<char>>>::do_get_weekday(istreambuf_iterator<char, char_traits<char>>, istreambuf_iterator<char,</code>

	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> >, 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> >, 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

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 long, ios_base&, _Ios_Iostate&) const(GLIBCXX_3.4) [1]
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 long, ios_base&, _Ios_Iostate&) const(GLIBCXX_3.4) [1]
time_get<char, istreambuf_iterator<char, char_traits<char> > >::time_get(unsigned long)(GLIBCXX_3.4) [1]
time_get<char, istreambuf_iterator<char, char_traits<char> > >::time_get(unsigned long)(GLIBCXX_3.4) [1]

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	typeinfo for <code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>
vfunc[0]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_get()</code>
vfunc[1]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~time_get()</code>
vfunc[2]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_date_order() const</code>
vfunc[3]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_get_time(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const</code>
vfunc[4]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_get_date(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t, char_traits<wchar_t>>, ios_base&, _Ios_Iostate&, tm*) const</code>
vfunc[5]:	<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::do_get_weekday(istreambuf_iterator<wchar_t, char_traits<wchar_t>>, istreambuf_iterator<wchar_t,</code>

	char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const
vfunc[6]:	time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_monthname(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const
vfunc[7]:	time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::do_get_year(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, ios_base&, _Ios_Iostate&, tm*) const

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

<code>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 long, ios_base&, _Ios_Iostate&) const</code> (GLIBCXX_3.4) [1]
<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::M_extract_name(istreambuf_iterator<wchar_t, char_traits<wchar_t> >, istreambuf_iterator<wchar_t, char_traits<wchar_t> >, int&, wchar_t const**, unsigned long, ios_base&, _Ios_Iostate&) const</code> (GLIBCXX_3.4) [1]
<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::time_get(unsigned long)</code> (GLIBCXX_3.4) [1]
<code>time_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::time_get(unsigned long)</code> (GLIBCXX_3.4) [1]

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 long)(GLIBCXX_3.4) [1]</code>
<code>time_put<char, ostreambuf_iterator<char, char_traits<char> > >::time_put(unsigned long)(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 long)(GLIBCXX_3.4) [1]</code>
<code>time_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::time_put(unsigned long)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

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

7.1.121 Class `moneypunct<char, false>`

7.1.121.1 Class data for `moneypunct<char, false>`

The virtual table for the `std::moneypunct<char, false>` class is described by Table 7-247

Table 7-247 Primary vtable for `moneypunct<char, false>`

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

Virtual Base Offset	0
RTTI	typeid for money_punct<char, false>
vfunc[0]:	money_punct<char, false>::~~money_punct()
vfunc[1]:	money_punct<char, false>::~money_punct()
vfunc[2]:	money_punct<char, false>::~do_decimal_point() const
vfunc[3]:	money_punct<char, false>::~do_thousands_sep() const
vfunc[4]:	money_punct<char, false>::~do_grouping() const
vfunc[5]:	money_punct<char, false>::~do_curr_symbol() const
vfunc[6]:	money_punct<char, false>::~do_positive_sign() const
vfunc[7]:	money_punct<char, false>::~do_negative_sign() const
vfunc[8]:	money_punct<char, false>::~do_frac_digits() const
vfunc[9]:	money_punct<char, false>::~do_pos_format() const
vfunc[10]:	money_punct<char, false>::~do_neg_format() const

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

money_punct<char, false>::money_punct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(__money_punct_cache<char, false>*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(__money_punct_cache<char, false>*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, false>::money_punct(unsigned long)(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 <code>money_punct<char, true></code>
<code>vfunc[0]:</code>	<code>money_punct<char, true>::~~money_punct()</code>
<code>vfunc[1]:</code>	<code>money_punct<char, true>::~~money_punct()</code>
<code>vfunc[2]:</code>	<code>money_punct<char, true>::do_decimal_point() const</code>
<code>vfunc[3]:</code>	<code>money_punct<char, true>::do_thousands_sep() const</code>
<code>vfunc[4]:</code>	<code>money_punct<char, true>::do_grouping() const</code>
<code>vfunc[5]:</code>	<code>money_punct<char, true>::do_curr_symbol() const</code>
<code>vfunc[6]:</code>	<code>money_punct<char, true>::do_positive_sign() const</code>
<code>vfunc[7]:</code>	<code>money_punct<char, true>::do_negative_sign() const</code>
<code>vfunc[8]:</code>	<code>money_punct<char, true>::do_frac_digits() const</code>
<code>vfunc[9]:</code>	<code>money_punct<char, true>::do_pos_format() const</code>
<code>vfunc[10]:</code>	<code>money_punct<char, true>::do_neg_format() const</code>

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

<code>money_punct<char, true>::money_punct(__locale_struct*, char const*, unsigned</code>

long)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(__money_punct_cache<char, true>*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(__money_punct_cache<char, true>*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<char, true>::money_punct(unsigned long)(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]:	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

7.1.123.2 Interfaces for Class money_punct<wchar_t, false>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money_punct<wchar_t, false> specified in Table 7-252, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-252 libstdc++ - Class money_punct<wchar_t, false> Function Interfaces

money_punct<wchar_t, false>::money_punct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<wchar_t, false>::money_punct(__money_punct_cache<wchar_t, false>*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<wchar_t, false>::money_punct(unsigned long)(GLIBCXX_3.4) [1]
money_punct<wchar_t, false>::money_punct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<wchar_t, false>::money_punct(__money_punct_cache<wchar_t, false>*, unsigned long)(GLIBCXX_3.4) [1]
money_punct<wchar_t, false>::money_punct(unsigned long)(GLIBCXX_3.4) [1]

Referenced Specification(s)

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

7.1.124 Class money_punct<wchar_t, true>

7.1.124.1 Class data for money_punct<wchar_t, true>

The virtual table for the std::money_punct<wchar_t, true> class is described by Table 7-253

Table 7-253 Primary vtable for money_punct<wchar_t, true>

Base Offset	0
Virtual Base Offset	0
RTTI	typeinfo 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

<code>money_punct<wchar_t, true>::money_punct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>money_punct<wchar_t, true>::money_punct(__money_punct_cache<wchar_t, true>*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>money_punct<wchar_t, true>::money_punct(unsigned long)(GLIBCXX_3.4) [1]</code>
<code>money_punct<wchar_t, true>::money_punct(__locale_struct*, char const*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>money_punct<wchar_t, true>::money_punct(__money_punct_cache<wchar_t, true>*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>money_punct<wchar_t, true>::money_punct(unsigned long)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

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

7.1.125 Class `money_punct_byname<char, false>`

7.1.125.1 Class data for `money_punct_byname<char, false>`

The virtual table for the `std::money_punct_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 moneypunct_byname<char, false>
vfunc[0]:	moneypunct_byname<char, false>::~~moneypunct_byname()
vfunc[1]:	moneypunct_byname<char, false>::~moneypunct_byname()
vfunc[2]:	moneypunct<char, false>::do_decimal_point() const
vfunc[3]:	moneypunct<char, false>::do_thousands_sep() const
vfunc[4]:	moneypunct<char, false>::do_grouping() const
vfunc[5]:	moneypunct<char, false>::do_curr_symbol() const
vfunc[6]:	moneypunct<char, false>::do_positive_sign() const
vfunc[7]:	moneypunct<char, false>::do_negative_sign() const
vfunc[8]:	moneypunct<char, false>::do_frac_digits() const
vfunc[9]:	moneypunct<char, false>::do_pos_format() const
vfunc[10]:	moneypunct<char, false>::do_neg_format() const

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 __cxxabiv1::__si_class_type_info
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 money_punct_byname<char, false> Function Interfaces

money_punct_byname<char, false>::money_punct_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]
money_punct_byname<char, false>::money_punct_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]

Referenced Specification(s)

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

7.1.126 Class money_punct_byname<char, true>

7.1.126.1 Class data for money_punct_byname<char, true>

The virtual table for the std::money_punct_byname<char, true> class is described by Table 7-258

Table 7-258 Primary vtable for money_punct_byname<char, true>

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

The Run Time Type Information for the `std::moneypunct_byname<char, true>` class is described by Table 7-259

Table 7-259 typeid for `moneypunct_byname<char, true>`

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

7.1.126.2 Interfaces for Class `moneypunct_byname<char, true>`

An LSB conforming implementation shall provide the architecture specific methods for Class `std::moneypunct_byname<char, true>` specified in Table 7-260, with the full mandatory functionality as described in the referenced underlying specification.

Table 7-260 libstdc++ - Class `moneypunct_byname<char, true>` Function Interfaces

<code>moneypunct_byname<char, true>::moneypunct_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]</code>
<code>moneypunct_byname<char, true>::moneypunct_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

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

7.1.127 Class `moneypunct_byname<wchar_t, false>`

7.1.127.1 Class data for `moneypunct_byname<wchar_t, false>`

The virtual table for the `std::moneypunct_byname<wchar_t, false>` class is described by Table 7-261

Table 7-261 Primary vtable for `moneypunct_byname<wchar_t, false>`

Base Offset	0
Virtual Base Offset	0
RTTI	typeid for <code>moneypunct_byname<wchar_t, false></code>
<code>vfunc[0]:</code>	<code>moneypunct_byname<wchar_t, false>::~~moneypunct_byname()</code>
<code>vfunc[1]:</code>	<code>moneypunct_byname<wchar_t, false>::~~moneypunct_byname()</code>
<code>vfunc[2]:</code>	<code>moneypunct<wchar_t, false>::do_decimal_point() const</code>
<code>vfunc[3]:</code>	<code>moneypunct<wchar_t, false>::do_thousands_sep() const</code>

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 typeinfo for `money_punct_byname<wchar_t, false>`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo 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 long)(GLIBCXX_3.4) [1]</code>
<code>money_punct_byname<wchar_t, false>::money_punct_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]</code>

Referenced Specification(s)

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

7.1.128 Class `money_punct_byname<wchar_t, true>`

7.1.128.1 Class data for `money_punct_byname<wchar_t, true>`

The virtual table for the `std::money_punct_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 moneypunct_byname<wchar_t, true>
vfunc[0]:	moneypunct_byname<wchar_t, true>::~~moneypunct_byname()
vfunc[1]:	moneypunct_byname<wchar_t, true>::~~moneypunct_byname()
vfunc[2]:	moneypunct<wchar_t, true>::do_decimal_point() const
vfunc[3]:	moneypunct<wchar_t, true>::do_thousands_sep() const
vfunc[4]:	moneypunct<wchar_t, true>::do_grouping() const
vfunc[5]:	moneypunct<wchar_t, true>::do_curr_symbol() const
vfunc[6]:	moneypunct<wchar_t, true>::do_positive_sign() const
vfunc[7]:	moneypunct<wchar_t, true>::do_negative_sign() const
vfunc[8]:	moneypunct<wchar_t, true>::do_frac_digits() const
vfunc[9]:	moneypunct<wchar_t, true>::do_pos_format() const
vfunc[10]:	moneypunct<wchar_t, true>::do_neg_format() const

The Run Time Type Information for the `std::moneypunct_byname<wchar_t, true>` class is described by Table 7-265

Table 7-265 typeinfo for moneypunct_byname<wchar_t, true>

Base Vtable	vtable for __cxxabiv1::__si_class_type_info
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

moneypunct_byname<wchar_t, true>::moneypunct_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]
moneypunct_byname<wchar_t, true>::moneypunct_byname(char const*, unsigned long)(GLIBCXX_3.4) [1]

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 typeid for money_base

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

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	typeid for money_get<char, istreambuf_iterator<char, char_traits<char> > >
vfunc[0]:	money_get<char, istreambuf_iterator<char, char_traits<char> > >::~~money_get()
vfunc[1]:	money_get<char, istreambuf_iterator<char, char_traits<char> > >::~money_get()

vfunc[2]:	money_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, bool, ios_base&, _Ios_Iostate&, long double&) const
vfunc[3]:	money_get<char, istreambuf_iterator<char, char_traits<char> > >::do_get(istreambuf_iterator<char, char_traits<char> >, istreambuf_iterator<char, char_traits<char> >, bool, ios_base&, _Ios_Iostate&, basic_string<char, char_traits<char>, allocator<char> >&) const

The Run Time Type Information for the `std::money_get<char, std::istreambuf_iterator<char, std::char_traits<char> > >` class is described by Table 7-269

Table 7-269 typeinfo for `money_get<char, istreambuf_iterator<char, char_traits<char> > >`

Base Vtable	vtable for <code>__cxxabiv1::__si_class_type_info</code>
Name	typeinfo name for <code>money_get<char, istreambuf_iterator<char, char_traits<char> > ></code>

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 libstdc++ - Class `money_get<char, istreambuf_iterator<char, char_traits<char> > >` Function Interfaces

<code>money_get<char, istreambuf_iterator<char, char_traits<char> > >::money_get(unsigned long)(GLIBCXX_3.4) [1]</code>
<code>money_get<char, istreambuf_iterator<char, char_traits<char> > >::money_get(unsigned long)(GLIBCXX_3.4) [1]</code>

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 <code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>></code>
vfunc[0]:	<code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~money_get()</code>
vfunc[1]:	<code>money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::~money_get()</code>
vfunc[2]:	<code>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_ostate&, long double&) const</code>
vfunc[3]:	<code>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_ostate&, basic_string<wchar_t, char_traits<wchar_t>, allocator<wchar_t>>&) const</code>

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 __cxxabiv1::__si_class_type_info
Name	typeid name for money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>

7.1.131.2 Interfaces for Class money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>

An LSB conforming implementation shall provide the architecture specific methods for Class std::money_get<wchar_t, std::istreambuf_iterator<wchar_t, std::char_traits<wchar_t>>> specified in 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

money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::money_get(unsigned long)(GLIBCXX_3.4) [1]
money_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t>>>::money_get(unsigned long)(GLIBCXX_3.4) [1]

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 long)(GLIBCXX_3.4) [1]
money_put<char, ostreambuf_iterator<char, char_traits<char> > >::money_put(unsigned long)(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, 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, ostreambuf_iterator<wchar_t, std::char_traits<wchar_t>>>` class is described by Table 7-278

Table 7-278 typeinfo for `money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t>>>`

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

	__cxxabiv1::__si_class_type_info
Name	typeinfo name for money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >

7.1.133.2 Interfaces for Class money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >

An LSB conforming implementation shall provide the architecture specific methods for Class std::money_put<wchar_t, std::ostreambuf_iterator<wchar_t, std::char_traits<wchar_t> > > specified in 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

money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::money_put(unsigned long)(GLIBCXX_3.4) [1]
money_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::money_put(unsigned long)(GLIBCXX_3.4) [1]

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

locale::_Impl::_Impl(char const*, unsigned long)(GLIBCXX_3.4) [1]
locale::_Impl::_Impl(locale::_Impl const&, unsigned long)(GLIBCXX_3.4) [1]
locale::_Impl::_Impl(unsigned long)(GLIBCXX_3.4) [1]
locale::_Impl::_Impl(char const*, unsigned long)(GLIBCXX_3.4) [1]
locale::_Impl::_Impl(locale::_Impl const&, unsigned long)(GLIBCXX_3.4) [1]
locale::_Impl::_Impl(unsigned long)(GLIBCXX_3.4) [1]

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 locale::facet
vfunc[0]:	locale::facet::~~facet()
vfunc[1]:	locale::facet::~~facet()

The Run Time Type Information for the std::locale::facet class is described by Table 7-282

Table 7-282 typeinfo for locale::facet

Base Vtable	vtable for __cxxabiv1::__class_type_info
Name	typeinfo name for locale::facet

7.1.135.2 Interfaces for Class locale::facet

No external methods are defined for libstdcxx - Class std::locale::facet

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 __cxxabiv1::__class_type_info
Name	typeinfo name for __num_base

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

num_get<char, istreambuf_iterator<char, char_traits<char> > >::num_get(unsigned long)(GLIBCXX_3.4) [1]
num_get<char, istreambuf_iterator<char, char_traits<char> > >::num_get(unsigned long)(GLIBCXX_3.4) [1]

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

num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::num_get(unsigned long)(GLIBCXX_3.4) [1]
num_get<wchar_t, istreambuf_iterator<wchar_t, char_traits<wchar_t> > >::num_get(unsigned long)(GLIBCXX_3.4) [1]

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 long, 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 long, char, char const*, char*, char*,

<code>int&) const(GLIBCXX_3.4) [1]</code>
<code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::_M_pad(char, long, ios_base&, char*, char const*, int&) const(GLIBCXX_3.4) [1]</code>
<code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::_num_put(unsigned long)(GLIBCXX_3.4) [1]</code>
<code>num_put<char, ostreambuf_iterator<char, char_traits<char> > >::_num_put(unsigned long)(GLIBCXX_3.4) [1]</code>

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 libstdc++ - Class `num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >` Function Interfaces

<code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::_M_group_int(char const*, unsigned long, wchar_t, ios_base&, wchar_t*, wchar_t*, int&) const(GLIBCXX_3.4) [1]</code>
<code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::_M_group_float(char const*, unsigned long, wchar_t, wchar_t const*, wchar_t*, wchar_t*, int&) const(GLIBCXX_3.4) [1]</code>
<code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::_M_pad(wchar_t, long, ios_base&, wchar_t*, wchar_t const*, int&) const(GLIBCXX_3.4) [1]</code>
<code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::_num_put(unsigned long)(GLIBCXX_3.4) [1]</code>
<code>num_put<wchar_t, ostreambuf_iterator<wchar_t, char_traits<wchar_t> > >::_num_put(unsigned long)(GLIBCXX_3.4) [1]</code>

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 long, valarray<unsigned long> const&, valarray<unsigned long> const&)(GLIBCXX_3.4) [1]</code>
<code>gslice::_Indexer::_Indexer(unsigned long, valarray<unsigned long> const&, valarray<unsigned long> 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*, long)(GLIBCXX_3.4) [1]</code>
<code>__basic_file<char>::xspn(char const*, long)(GLIBCXX_3.4) [1]</code>
<code>__basic_file<char>::seekoff(long, _Ios_Seekdir)(GLIBCXX_3.4) [1]</code>
<code>__basic_file<char>::xspn_2(char const*, long, char const*, long)(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 long>::size() const</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned long>::valarray(valarray<unsigned long> const&)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned long>::valarray(unsigned long)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned long>::valarray(valarray<unsigned long> const&)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned long>::valarray(unsigned long)</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned long>::~~valarray()</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned long>::~~valarray()</code> (GLIBCXX_3.4) [1]
<code>valarray<unsigned long>::operator[]</code> (unsigned long)(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.

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