

MULTI: Toolchain Error Messages



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Chapter 1

C and C++ Compiler Error Messages

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Compiler Error Message Codes	2
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This chapter lists error messages that you may encounter when compiling C or C++ code, listed by error number. For information about how to suppress these messages, see “Set Message to Silent (**--diag_suppress**)” in Chapter 3, “Builder and Driver Options” in the *MULTI: Building Applications* book.

Compiler Error Message Codes

The following list contains all the C and C++ compiler error messages:

Errors 1 to 99

1	last_line_incomplete last line of file ends without a newline
2	last_line_backslash last line of file ends with a backslash
3	include_recursion #include file "xxxx" includes itself For more information, see “C++ Implementation Defined Features” in “Green Hills C++” in the <i>MULTI: Building Applications</i> book.
4	out_of_memory out of memory
5	source_file_could_not_be_opened could not open source file "xxxx"
6	comment_unclosed_at_eof comment unclosed at end of file
7	bad_token unrecognized token
8	unclosed_string missing closing quote

9	nested_comment nested comment is not allowed GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book. You cannot nest comments inside one another. For example, the following line will cause the compiler to issue a warning: <pre>/* this is /*a comment*/ not a comment */</pre> Because the first instance of <code>*/</code> closes the comment, the compiler parses <code>not a comment</code> as C code.
10	bad_use_of_sharp "#" not expected here
11	bad_pp_directive_keyword unrecognized preprocessing directive GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book. The compiler issues this warning when it does not recognize a preprocessing directive. For example: <pre>#foo</pre>
12	end_of_flush parsing restarts here after previous syntax error
13	exp_file_name expected a file name
14	extra_text_in_pp_directive extra text after expected end of preprocessing directive
16	illegal_source_file_name "xxxx" is not a valid source file name
17	exp_rbracket expected a "]"
18	exp_rparen expected a ")"
19	extra_chars_on_number extra text after expected end of number

20	undefined_identifier identifier "xxxx" is undefined
21	useless_type_qualifiers type qualifiers are meaningless in this declaration
22	bad_hex_digit invalid hexadecimal number
23	integer_too_large integer constant is too large
24	bad_octal_digit invalid octal digit
25	zero_length_string quoted string should contain at least one character
26	too_many_characters too many characters in character constant
27	bad_character_value character value is out of range
28	expr_not_constant expression must have a constant value
29	exp_primary_expr expected an expression
30	bad_float_value floating constant is out of range
31	expr_not_integral expression must have integral type
32	expr_not_arithmetic expression must have arithmetic type
33	exp_line_number expected a line number
34	bad_line_number invalid line number

35	error_directive #error directive: xxxx
36	missing_pp_if the #if for this directive is missing GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
37	missing_endif the #endif for this directive is missing GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
38	pp_else_already_appeared directive is not allowed -- an #else has already appeared
39	divide_by_zero division by zero
40	exp_identifier expected an identifier
41	expr_not_scalar expression must have arithmetic or pointer type
42	incompatible_operands operand types are incompatible ("type" and "type")
44	expr_not_pointer expression must have pointer type
45	cannot_undef_predef_macro #undef may not be used on this predefined name "entity"
46	cannot_redef_predef_macro "entity" is predefined; attempted redefinition ignored
47	bad_macro_redef incompatible redefinition of macro "entity" (declared at line xxxx)
49	duplicate_macro_param_name duplicate macro parameter name

50	paste_cannot_be_first "###" may not be first in a macro definition
51	paste_cannot_be_last "###" may not be last in a macro definition
52	exp_macro_param expected a macro parameter name
53	exp_colon expected a ":"
54	too_few_macro_args too few arguments in macro invocation GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
55	too_many_macro_args too many arguments in macro invocation
56	sizeof_function operand of sizeof may not be a function
57	bad_constant_operator this operator is not allowed in a constant expression
58	bad_pp_operator this operator is not allowed in a preprocessing expression
59	bad_constant_function_call function call is not allowed in a constant expression
60	bad_integral_operator this operator is not allowed in an integral constant expression
61	integer_overflow integer operation result is out of range
62	negative_shift_count shift count is negative
63	shift_count_too_large shift count is too large GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

64	useless_decl declaration does not declare anything
65	exp_semicolon expected a ";"
66	enum_value_out_of_int_range enumeration value is out of "int" range GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
67	exp_rbrace expected a "}"
68	integer_sign_change integer conversion resulted in a change of sign
69	integer_truncated integer conversion resulted in truncation GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
70	incomplete_type_not_allowed incomplete type is not allowed
71	sizeof_bit_field operand of sizeof may not be a bit field
75	bad_indirection_operand operand of "*" must be a pointer
76	empty_macro_argument argument to macro is empty
77	missing_decl_specifiers this declaration has no storage class or type specifier GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
78	initializer_in_param a parameter declaration may not have an initializer
79	exp_type_specifier expected a type specifier

80	storage_class_not_allowed a storage class may not be specified here
81	mult_storage_classes more than one storage class may not be specified
82	storage_class_not_first storage class is not first
83	dupl_type_qualifier type qualifier specified more than once
84	bad_combination_of_type_specifiers invalid combination of type specifiers
85	bad_param_storage_class invalid storage class for a parameter
86	bad_function_storage_class invalid storage class for a function
87	type_specifier_not_allowed a type specifier may not be used here
88	array_of_function array of functions is not allowed
89	array_of_void array of void is not allowed
90	function_returning_function function returning function is not allowed
91	function_returning_array function returning array is not allowed
92	param_id_list_needs_function_def identifier-list parameters may only be used in a function definition
93	function_type_must_come_from_declarator function type may not come from a typedef
94	array_size_must_be_positive the size of an array must be greater than zero

95	array_size_too_large array is too large
96	empty_translation_unit a translation unit must contain at least one declaration
97	bad_function_return_type a function may not return a value of this type
98	bad_array_element_type an array may not have elements of this type
99	decl_should_be_of_param a declaration here must declare a parameter

Errors 100 to 199

100	dupl_param_name duplicate parameter name
101	id_already_declared "xxxx" has already been declared in the current scope
102	nonstd_forward_decl_enum forward declaration of enum type is nonstandard
103	class_too_large class is too large
104	struct_too_large struct or union is too large
105	bad_bit_field_size invalid size for bit field
106	bad_bit_field_type invalid type for a bit field
107	zero_length_bit_field_must_be_unnamed zero-length bit field must be unnamed

108	signed_one_bit_field signed bit field of length 1 GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
109	expr_not_ptr_to_function expression must have (pointer-to-) function type
110	exp_definition_of_tag expected either a definition or a tag name
111	code_is_unreachable statement is unreachable
112	exp_while expected "while"
114	never_defined entity-kind "entity" was referenced but not defined
115	continue_must_be_in_loop a continue statement may only be used within a loop
116	break_must_be_in_loop_or_switch a break statement may only be used within a loop or switch
117	no_value_returned_in_non_void_function non-void entity-kind "entity" should return a value GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
118	value_returned_in_void_function a void function may not return a value
119	cast_to_bad_type cast to type "type" is not allowed
120	bad_return_value_type return value type does not match the function type
121	case_label_must_be_in_switch a case label may only be used within a switch
122	default_label_must_be_in_switch a default label may only be used within a switch

123	case_label_appears_more_than_once case label value has already appeared in this switch at line xxxx
124	default_label_appears_more_than_once default label has already appeared in this switch at line xxxx
125	exp_lparen expected a "("
126	expr_not_an_lvalue expression must be an lvalue
127	exp_statement expected a statement
128	loop_not_reachable loop is not reachable from preceding code
129	block_scope_function_must_be_extern a block-scope function may only have extern storage class
130	exp_lbrace expected a "{"
131	expr_not_ptr_to_class expression must have pointer-to-class type
132	expr_not_ptr_to_struct_or_union expression must have pointer-to-struct-or-union type
133	exp_member_name expected a member name
134	exp_field_name expected a field name
135	not_a_member entity-kind "entity" has no member "xxxx"
136	not_a_field entity-kind "entity" has no field "xxxx"
137	expr_not_a_modifiable_lvalue expression must be a modifiable lvalue

138	address_of_register_variable taking the address of a register variable is not allowed
139	address_of_bit_field taking the address of a bit field is not allowed
140	too_many_arguments too many arguments in function call
141	all_proto_params_must_be_named unnamed prototyped parameters not allowed when body is present
142	expr_not_pointer_to_object expression must have pointer-to-object type
143	program_too_large program too large or complicated to compile
144	bad_initializer_type a value of type "type" cannot be used to initialize an entity of type "type"
145	cannot_initialize entity-kind "entity" may not be initialized
146	too_many_initializer_values too many initializer values
147	not_compatible_with_previous_decl declaration is incompatible with entity-kind "entity" (declared at line xxxx)
148	already_initialized entity-kind "entity" has already been initialized
149	bad_file_scope_storage_class a global-scope declaration may not have this storage class
150	type_cannot_be_param_name a type name may not be redeclared as a parameter
151	typedef_cannot_be_param_name a typedef name may not be redeclared as a parameter
152	non_zero_int_conv_to_pointer conversion of nonzero integer to pointer

153	expr_not_class expression must have class type
154	expr_not_struct_or_union expression must have struct or union type
155	old_fashioned_assignment_operator old-fashioned assignment operator
156	old_fashioned_initializer old-fashioned initializer
157	expr_not_integral_constant expression must be an integral constant expression
158	expr_not_an_lvalue_or_function_designator expression must be an lvalue or a function designator
159	decl_incompatible_with_previous_use declaration is incompatible with previous "entity" (declared at line xxxx)
160	external_name_clash external name conflicts with external name of entity-kind "entity" (declared at line xxxx)
161	unrecognized_pragma unrecognized #pragma
163	cannot_open_temp_file could not open temporary file "xxxx"
164	temp_file_dir_name_too_long name of directory for temporary files is too long ("xxxx")
165	too_few_arguments too few arguments in function call
166	bad_float_constant invalid floating constant
167	incompatible_param argument of type "type" is incompatible with parameter of type "type"

168	function_type_not_allowed a function type is not allowed here
169	exp_declaration expected a declaration
170	pointer_outside_base_object pointer points outside of underlying object
171	bad_cast invalid type conversion
172	linkage_conflict external/internal linkage conflict with previous declaration GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
173	float_to_integer_conversion floating-point value does not fit in required integral type
174	expr_has_no_effect expression has no effect GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
175	subscript_out_of_range subscript out of range
177	declared_but_not_referenced entity-kind "entity" was declared but never referenced
178	pcc_address_of_array "&" applied to an array has no effect
179	mod_by_zero right operand of "%" is zero
180	old_style_incompatible_param argument is incompatible with formal parameter
181	printf_arg_mismatch argument is incompatible with corresponding format string conversion (expected "type", given "type") GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

182	empty_include_search_path could not open source file "xxxx" (no directories in search list)
183	cast_not_integral type of cast must be integral
184	cast_not_scalar type of cast must be arithmetic or pointer
185	initialization_not_reachable dynamic initialization in unreachable code
186	unsigned_compare_with_zero pointless comparison of unsigned integer with zero
187	assign_where_compare_meant use of "=" where "==" may have been intended GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
188	mixed_enum_type enumerated type mixed with another type
189	file_write_error error while writing xxxx file
190	bad_il_file invalid intermediate language file
191	cast_to_qualified_type type qualifier is meaningless on cast type
192	unrecognized_char_escape unrecognized character escape sequence GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
193	undefined_preproc_id zero used for undefined preprocessing identifier "xxxx"
194	exp_asm_string expected an asm string
195	asm_func_must_be_prototyped an asm function must be prototyped

196	bad_asm_func_ellipsis an asm function may not have an ellipsis
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Errors 200 to 299

219	file_delete_error error while deleting file "xxxx"
220	integer_to_float_conversion integral value does not fit in required floating-point type
221	float_to_float_conversion floating-point value does not fit in required floating-point type
222	bad_float_operation_result floating-point operation result is out of range
223	implicit_func_decl function xxxx declared implicitly GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
224	too_few_printf_args the format string requires additional arguments GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
225	too_many_printf_args the format string ends before this argument GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
226	bad_printf_format_string invalid format string conversion GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
227	macro_recursion macro recursion
228	nonstd_extra_comma trailing comma is nonstandard

229	enum_bit_field_too_small bit field cannot contain all values of the enumerated type
230	nonstd_bit_field_type nonstandard type for a bit field
231	decl_in_prototype_scope declaration is not visible outside of function
232	decl_of_void_ignored old-fashioned typedef of "void" ignored
233	old_fashioned_field_selection left operand is not a struct or union containing this field
234	old_fashioned_ptr_field_selection pointer does not point to struct or union containing this field
235	var_retained_incomp_type variable "xxxx" was declared with a never-completed type
236	boolean_controlling_expr_is_constant controlling expression is constant
237	switch_selector_expr_is_constant selector expression is constant GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
238	bad_param_specifier invalid specifier on a parameter
239	bad_specifier_outside_class_decl invalid specifier outside a class declaration
240	dupl_decl_specifier duplicate specifier in declaration
241	base_class_not_allowed_for_union a union is not allowed to have a base class
242	access_already_specified multiple access control specifiers are not allowed
243	missing_class_definition class or struct definition is missing

244	name_not_member_of_class_or_base_classes qualified name is not a member of class "type" or its base classes
245	member_ref_requires_object a nonstatic member reference must be relative to a specific object
246	nonstatic_member_def_not_allowed a nonstatic data member may not be defined outside its class
247	already_defined entity-kind "entity" has already been defined
248	pointer_to_reference pointer to reference is not allowed
249	reference_to_reference reference to reference is not allowed
250	reference_to_void reference to void is not allowed
251	array_of_reference array of reference is not allowed
252	missing_initializer_on_reference reference entity-kind "entity" requires an initializer
253	exp_comma expected a ",", "
254	type_identifier_not_allowed type name is not allowed
255	type_definition_not_allowed type definition is not allowed
256	bad_type_name_redeclaration invalid redeclaration of type name "entity" (declared at line xxxx)
257	missing_initializer_on_const const entity-kind "entity" requires an initializer

258	this_used_incorrectly "this" may only be used inside a nonstatic member function
259	constant_value_not_known constant value is not known
260	missing_type_specifier explicit type is missing ("int" assumed) GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
261	missing_access_specifier access control not specified ("xxxx" by default)
262	not_a_class_or_struct_name not a class or struct name
263	dupl_base_class_name duplicate base class name
264	bad_base_class invalid base class
265	no_access_to_name entity-kind "entity" is inaccessible
266	ambiguous_name "entity" is ambiguous
267	old_style_parameter_list old-style parameter list (anachronism)
268	declaration_after_statements declaration may not appear after executable statement in block
269	inaccessible_base_class conversion to inaccessible base class "type" is not allowed
274	improperly_terminated_macro_call improperly terminated macro invocation
276	id_must_be_class_or_namespace_name name followed by "::" must be a class or namespace name
277	bad_friend_decl invalid friend declaration

278	value_returned_in_constructor a constructor or destructor may not return a value
279	bad_destructor_decl invalid destructor declaration
280	class_and_member_name_conflict declaration of a member with the same name as its class
281	global_qualifier_not_allowed global-scope qualifier (leading "::") is not allowed
282	name_not_found_in_file_scope the global scope has no "xxxx"
283	qualified_name_not_allowed qualified name is not allowed
284	null_reference NULL reference is not allowed
285	brace_initialization_not_allowed initialization with "{...}" is not allowed for object of type "type"
286	ambiguous_base_class base class "type" is ambiguous
287	ambiguous_derived_class derived class "type" contains more than one instance of class "type"
288	derived_class_from_virtual_base cannot convert pointer to base class "type" to pointer to derived class "type" -- base class is virtual
289	no_matching_constructor no instance of constructor "entity" matches the argument list
290	ambiguous_copy_constructor copy constructor for class "type" is ambiguous
291	no_default_constructor no default constructor exists for class "type"

292	not_a_field_or_base_class "xxxx" is not a nonstatic data member or base class of class "type"
293	indirect_nonvirtual_base_class_not_allowed indirect nonvirtual base class is not allowed
294	bad_union_field invalid union member -- class "type" has a disallowed member function
296	bad_rvalue_array invalid use of non-lvalue array
297	exp_operator expected an operator
298	inherited_member_not_allowed inherited member is not allowed
299	indeterminate_overloaded_function cannot determine which instance of entity-kind "entity" is intended

Errors 300 to 399

300	bound_function_must_be_called a pointer to a bound function may only be used to call the function
301	duplicate_typedef typedef name has already been declared (with same type)
302	function_redefinition entity-kind "entity" has already been defined
304	no_matching_function no instance of entity-kind "entity" matches the argument list
305	type_def_not_allowed_in_func_type_decl type definition is not allowed in function return type declaration

306	default_arg_not_at_end default argument not at end of parameter list
307	default_arg_already_defined redefinition of default argument
308	ambiguous_overloaded_function more than one instance of entity-kind "entity" matches the argument list:
309	ambiguous_constructor more than one instance of constructor "entity" matches the argument list:
310	bad_default_arg_type default argument of type "type" is incompatible with parameter of type "type"
311	return_type_cannot_distinguish_functions cannot overload functions distinguished by return type alone
312	no_user_defined_conversion no suitable user-defined conversion from "type" to "type" exists
313	function_qualifier_not_allowed type qualifier is not allowed on this function
314	virtual_static_not_allowed only nonstatic member functions may be virtual
315	unqual_function_with_qual_object the object has cv-qualifiers that are not compatible with the member function
316	too_many_virtual_functions program too large to compile (too many virtual functions)
317	bad_return_type_on_virtual_function_override return type is neither identical to nor covariant with return type "type" of overridden virtual function entity-kind "entity"
318	ambiguous_virtual_function_override override of virtual entity-kind "entity" is ambiguous
319	pure_specifier_on_nonvirtual_function pure specifier ("= 0") allowed only on virtual functions

320	bad_pure_specifier badly-formed pure specifier (only "= 0" is allowed)
321	bad_data_member_initialization data member initializer is not allowed
322	abstract_class_object_not_allowed object of abstract class type "type" is not allowed:
323	function_returning_abstract_class function returning abstract class "type" is not allowed:
324	duplicate_friend_decl duplicate friend declaration
325	inline_and_nonfunction inline specifier allowed on function declarations only
326	inline_not_allowed "inline" is not allowed
327	bad_storage_class_with_inline invalid storage class for an inline function
328	bad_member_storage_class invalid storage class for a class member
329	local_class_function_def_missing local class member entity-kind "entity" requires a definition
330	inaccessible_special_function entity-kind "entity" (declared at line xxxx) is inaccessible
332	missing_const_copy_constructor class "type" has no copy constructor to copy a const object
333	definition_of_implicitly_declared_function defining an implicitly declared member function is not allowed
334	no_suitable_copy_constructor class "type" has no suitable copy constructor
335	linkage_specifier_not_allowed linkage specification is not allowed

336	bad_linkage_specifier unknown external linkage specification
337	incompatible_linkage_specifier linkage specification is incompatible with previous "entity" (declared at line xxxx)
338	overloaded_function_linkage more than one instance of overloaded function "entity" has "C" linkage
339	ambiguous_default_constructor class "type" has more than one default constructor
340	temp_used_for_ref_init value copied to temporary, reference to temporary used
341	nonmember_operator_not_allowed "operatorxxxx" must be a member function
342	static_member_operator_not_allowed operator may not be a static member function
343	too_many_args_for_conversion no arguments allowed on user-defined conversion
344	too_many_args_for_operator too many parameters for this operator function
345	too_few_args_for_operator too few parameters for this operator function
346	no_params_with_class_type nonmember operator requires a parameter with class type
347	default_arg_expr_not_allowed default argument is not allowed
348	ambiguous_user_defined_conversion more than one user-defined conversion from "type" to "type" applies:
349	no_matching_operator_function no operator "xxxx" matches these operands

350	ambiguous_operator_function more than one operator "xxxx" matches these operands:
351	bad_arg_type_for_operator_new first parameter of allocation function must be of type "size_t"
352	bad_return_type_for_op_new allocation function requires "void *" return type
353	bad_return_type_for_op_delete deallocation function requires "void" return type
354	bad_first_arg_type_for_operator_delete first parameter of deallocation function must be of type "void *"
356	type_must_be_object_type type must be an object type
357	base_class_already_initialized base class "type" has already been initialized
358	base_class_init_anachronism base class name required -- "type" assumed (anachronism)
359	member_already_initialized entity-kind "entity" has already been initialized
360	missing_base_class_or_member_name name of member or base class is missing
361	assignment_to_this assignment to "this" (anachronism)
362	overload_anachronism "overload" keyword used (anachronism)
363	anon_union_member_access invalid anonymous union -- nonpublic member is not allowed
364	anon_union_member_function invalid anonymous union -- member function is not allowed
365	anon_union_storage_class anonymous union at global or namespace scope must be declared static

366	missing_initializer_on_fields entity-kind "entity" provides no initializer for:
367	cannot_initialize_fields implicitly generated constructor for class "type" cannot initialize:
368	no_ctor_but_const_or_ref_member entity-kind "entity" defines no constructor to initialize the following:
369	var_with_uninitialized_member entity-kind "entity" has an uninitialized const or reference member
370	var_with_uninitialized_field entity-kind "entity" has an uninitialized const field
371	missing_const_assignment_operator class "type" has no assignment operator to copy a const object
372	no_suitable_assignment_operator class "type" has no suitable assignment operator
373	ambiguous_assignment_operator ambiguous assignment operator for class "type"
375	missing_typedef_name declaration requires a typedef name
377	virtual_not_allowed "virtual" is not allowed
378	static_not_allowed "static" is not allowed
379	bound_function_cast_anachronism cast of bound function to normal function pointer (anachronism)
380	expr_not_ptr_to_member expression must have pointer-to-member type
381	extra_semicolon extra ";" ignored

382	nonstd_const_member in-class initializer for nonstatic member is nonstandard
384	no_matching_new_function no instance of overloaded "entity" matches the argument list
386	no_match_for_addr_of_overloaded_function no instance of entity-kind "entity" matches the required type
387	delete_count_anachronism delete array size expression used (anachronism)
389	cast_to_abstract_class a cast to abstract class "type" is not allowed:
390	bad_use_of_main function "main" may not be called or have its address taken
391	initializer_not_allowed_on_array_new a new-initializer may not be specified for an array
392	member_function_redecl_outside_class member function "entity" may not be redeclared outside its class
393	ptr_to_incomplete_class_type_not_allowed pointer to incomplete class type is not allowed
394	ref_to_nested_function_var reference to local variable of enclosing function is not allowed
395	single_arg_postfix_incr_decr_anachronism single-argument function used for postfix "xxxx" (anachronism)
397	bad_default_assignment implicitly generated assignment operator cannot copy:
398	nonstd_array_cast cast to array type is nonstandard (treated as cast to "type")
399	class_with_op_new_but_no_op_delete entity-kind "entity" has an operator new() but no default operator delete()

Errors 400 to 499

400	class_with_op_delete_but_no_op_new entity-kind "entity" has a default operator delete() but no operator new()
401	base_class_with_nonvirtual_dtor destructor for base class "entity" (declared at line xxxx) is not virtual
403	member_function_redeclaration entity-kind "entity" has already been declared
404	inline_main function "main" may not be declared inline
405	class_and_member_function_name_conflict member function with the same name as its class must be a constructor
406	nested_class_anachronism using nested entity-kind "entity" (anachronism)
407	too_many_params_for_destructor a destructor may not have parameters
408	bad_constructor_param copy constructor for class "type" may not have a parameter of type "type"
409	incomplete_function_return_type entity-kind "entity" returns incomplete type "type"
410	protected_access_problem protected entity-kind "entity" (declared at line xxxx) is not accessible through a "type" pointer or object
411	param_not_allowed a parameter is not allowed
412	asm_decl_not_allowed an "asm" declaration is not allowed here
413	no_conversion_function no suitable conversion function from "type" to "type" exists

414	delete_of_incomplete_class delete of pointer to incomplete class
415	no_constructor_for_conversion no suitable constructor exists to convert from "type" to "type"
416	ambiguous_constructor_for_conversion more than one constructor applies to convert from "type" to "type":
417	ambiguous_conversion_function more than one conversion function from "type" to "type" applies:
418	ambiguous_conversion_to_builtin more than one conversion function from "type" to a built-in type applies:
424	addr_of_constructor_or_destructor a constructor or destructor may not have its address taken
426	nonconst_ref_init_anachronism temporary used for initial value of reference to non-const (anachronism)
427	qualifier_in_member_declaration qualified name is not allowed in member declaration
428	mixed_enum_type_anachronism enumerated type mixed with another type (anachronism)
429	new_array_size_must_be_nonnegative the size of an array in "new" must be non-negative
430	return_ref_init_requires_temp returning reference to local temporary
432	enum_not_allowed "enum" declaration is not allowed
433	qualifier_dropped_in_ref_init qualifiers dropped in binding reference of type "type" to initializer of type "type"
434	bad_nonconst_ref_init a reference of type "type" (not const-qualified) cannot be initialized with a value of type "type"

435	delete_of_function_pointer a pointer to function may not be deleted
436	bad_conversion_function_decl conversion function must be a nonstatic member function
437	bad_template_declaration_scope template declaration is not allowed here
438	exp_lt expected a "<"
439	exp_gt expected a ">"
440	missing_template_param template parameter declaration is missing
441	missing_template_arg_list argument list for entity-kind "entity" is missing
442	too_few_template_args too few arguments for entity-kind "entity"
443	too_many_template_args too many arguments for entity-kind "entity"
445	not_used_in_template_function_params entity-kind "entity" is not used in declaring the parameter types of entity-kind "entity"
446	cfront_multiple_nested_types two nested types have the same name: "entity" and "entity" (declared at line xxxx) (cfront compatibility)
447	cfront_global_defined_after_nested_type global "entity" was declared after nested "entity" (declared at line xxxx) (cfront compatibility)
449	ambiguous_ptr_to_overloaded_function more than one instance of entity-kind "entity" matches the required type
450	nonstd_long_long the type "long long" is nonstandard

451	nonstd_friend_decl omission of "xxxx" is nonstandard
452	return_type_on_conversion_function return type may not be specified on a conversion function
456	runaway_recursive_instantiation excessive recursion at instantiation of entity-kind "entity" For more information, see “C++ Implementation Defined Features” in “Green Hills C++” in the <i>MULTI: Building Applications</i> book.
457	bad_template_declaration "xxxx" is not a function or static data member
458	bad_nontype_template_arg argument of type "type" is incompatible with template parameter of type "type"
459	init_needing_temp_not_allowed initialization requiring a temporary or conversion is not allowed
460	decl_hides_function_parameter declaration of "xxxx" hides function parameter GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the <i>MULTI: Building Applications</i> book.
461	nonconst_ref_init_from_rvalue initial value of reference to non-const must be an lvalue
463	template_not_allowed "template" is not allowed
464	not_a_class_template "type" is not a class template
466	function_template_named_main "main" is not a valid name for a function template
467	union_nonunion_mismatch invalid reference to entity-kind "entity" (union/nonunion mismatch)
468	local_type_in_template_arg a template argument may not reference a local type

469	tag_kind_incompatible_with_declaration tag kind of xxxx is incompatible with declaration of entity-kind "entity" (declared at line xxxx)
470	name_not_tag_in_file_scope the global scope has no tag named "xxxx"
471	not_a_tag_member entity-kind "entity" has no tag member named "xxxx"
472	ptr_to_member_typedef member function typedef (allowed for cfront compatibility)
473	bad_use_of_member_function_typedef entity-kind "entity" may be used only in pointer-to-member declaration
475	nonexternal_entity_in_template_arg a template argument may not reference a non-external entity
476	id_must_be_class_or_type_name name followed by "::~" must be a class name or a type name
477	destructor_name_mismatch destructor name does not match name of class "type"
478	destructor_type_mismatch type used as destructor name does not match type "type"
479	called_function_redeclared_inline entity-kind "entity" redeclared "inline" after being called
481	bad_storage_class_on_template_decl invalid storage class for a template declaration
482	no_access_to_type_cfront_mode entity-kind "entity" (declared at line xxxx) is an inaccessible type (allowed for cfront compatibility)
484	invalid_instantiation_argument invalid explicit instantiation declaration
485	not_instantiatable_entity entity-kind "entity" is not an entity that can be instantiated

486	compiler_generated_function_cannot_be_instantiated compiler generated entity-kind "entity" cannot be explicitly instantiated
487	inline_function_cannot_be_instantiated inline entity-kind "entity" cannot be explicitly instantiated
489	instantiation_requested_no_definition_supplied entity-kind "entity" cannot be instantiated -- no template definition was supplied
490	instantiation_requested_and_specialized entity-kind "entity" cannot be instantiated -- it has been explicitly specialized
493	no_match_for_type_of_overloaded_function no instance of entity-kind "entity" matches the specified type
494	nonstd_void_param_list declaring a void parameter list with a typedef is nonstandard
495	cfront_name_lookup_bug global entity-kind "entity" used instead of entity-kind "entity" (cfront compatibility)
496	redeclaration_of_template_param_name template parameter "xxxx" may not be redeclared in this scope
497	decl_hides_template_parameter declaration of "xxxx" hides template parameter
498	must_be_prototype_instantiation template argument list must match the parameter list

Errors 500 to 599

500	bad_extra_arg_for_postfix_operator extra parameter of postfix "operator++" must be of type "int"
501	function_type_required an operator name must be declared as a function
502	operator_name_not_allowed operator name is not allowed

503	bad_scope_for_specialization entity-kind "entity" cannot be specialized in the current scope
504	nonstd_member_function_address nonstandard form for taking the address of a member function
505	too_few_template_params too few template parameters -- does not match previous declaration
506	too_many_template_params too many template parameters -- does not match previous declaration
507	template_operator_delete function template for operator delete(void *) is not allowed
508	class_template_same_name_as_tmpl_param class template and template parameter may not have the same name
510	unnamed_type_in_template_arg a template argument may not reference an unnamed type
511	enum_type_not_allowed enumerated type is not allowed
512	qualified_reference_type type qualifier on a reference type is not allowed
513	incompatible_assignment_operands a value of type "type" cannot be assigned to an entity of type "type"
514	unsigned_compare_with_negative pointless comparison of unsigned integer with a negative constant
515	converting_to_incomplete_class cannot convert to incomplete class "type"
516	missing_initializer_on_unnamed_const const object requires an initializer
517	unnamed_object_with_uninitialized_field object has an uninitialized const or reference member

518	nonstd_pp_directive nonstandard preprocessing directive
519	unexpected_template_arg_list entity-kind "entity" may not have a template argument list
520	missing_initializer_list initialization with "{...}" expected for aggregate object
521	incompatible_ptr_to_member_selection_operands pointer-to-member selection class types are incompatible ("type" and "type")
522	self_friendship pointless friend declaration
523	period_used_as_qualifier "." used in place of "::" to form a qualified name
524	const_function_anachronism non-const function called for const object (anachronism)
525	dependent_stmt_is_declaration a dependent statement may not be a declaration
526	void_param_not_allowed a parameter may not have void type
529	bad_tmpl_arg_expr_operator this operator is not allowed in a template argument expression
530	missing_handler try block requires at least one handler
531	missing_exception_declaration handler requires an exception declaration
532	masked_by_default_handler handler is masked by default handler
533	masked_by_handler handler is potentially masked by previous handler for type "type"
534	local_type_used_in_exception use of a local type to specify an exception

535	redundant_exception_specification_type redundant type in exception specification
536	incompatible_exception_specification exception specification is incompatible with that of previous entity-kind "entity" (declared at line xxxx)
540	no_exception_support support for exception handling is disabled
541	omitted_exception_specification omission of exception specification is incompatible with previous entity-kind "entity" (declared at line xxxx)
542	cannot_create_instantiation_request_file could not create instantiation request file "xxxx"
543	non_arith_operation_in_tmpl_arg non-arithmetic operation not allowed in nontype template argument
544	local_type_in_nonlocal_var use of a local type to declare a nonlocal variable
545	local_type_in_function use of a local type to declare a function
546	branch_past_initialization transfer of control bypasses initialization of:
548	branch_into_handler transfer of control into an exception handler
549	used_before_set entity-kind "entity" is used before its value is set GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
550	set_but_not_used entity-kind "entity" was set but never used
551	bad_scope_for_definition entity-kind "entity" cannot be defined in the current scope
552	exception_specification_not_allowed exception specification is not allowed

553	template_and_instance_linkage_conflict external/internal linkage conflict for entity-kind "entity" (declared at line xxxx)
554	conversion_function_not_usable entity-kind "entity" will not be called for implicit or explicit conversions
555	tag_kind_incompatible_with_template_parameter tag kind of xxxx is incompatible with template parameter of type "type"
556	template_operator_new function template for operator new(size_t) is not allowed
558	bad_member_type_in_ptr_to_member pointer to member of type "type" is not allowed
559	ellipsis_on_operator_function ellipsis is not allowed in operator function parameter list
560	unimplemented_keyword "entity" is reserved for future use as a keyword
561	cl_invalid_macro_definition invalid macro definition:
562	cl_invalid_macro_undefinition invalid macro undefinition:
563	cl_invalid_preprocessor_output_file invalid preprocessor output file
564	cl_cannot_open_preprocessor_output_file cannot open preprocessor output file
565	cl_il_file_must_be_specified IL file name must be specified if input is
566	cl_invalid_il_output_file invalid IL output file
567	cl_cannot_open_il_output_file cannot open IL output file

568	cl_invalid_C_output_file invalid C output file
569	cl_cannot_open_C_output_file cannot open C output file
570	cl_error_in_debug_option_argument error in debug option argument
571	cl_invalid_option invalid option:
572	cl_back_end_requires_il_file back end requires name of IL file
573	cl_could_not_open_il_file could not open IL file
574	cl_invalid_number invalid number:
575	cl_incorrect_host_id incorrect host CPU id
576	cl_invalid_instantiation_mode invalid instantiation mode:
578	cl_invalid_error_limit invalid error limit:
579	cl_invalid_raw_listing_output_file invalid raw-listing output file
580	cl_cannot_open_raw_listing_output_file cannot open raw-listing output file
581	cl_invalid_xref_output_file invalid cross-reference output file
582	cl_cannot_open_xref_output_file cannot open cross-reference output file
583	cl_invalid_error_output_file invalid error output file

584	cl_cannot_open_error_output_file cannot open error output file
585	cl_vtbl_option_only_in_cplusplus virtual function tables can only be suppressed when compiling C++
586	cl_anachronism_option_only_in_cplusplus anachronism option can be used only when compiling C++
587	cl_instantiation_option_only_in_cplusplus instantiation mode option can be used only when compiling C++
588	cl_auto_instantiation_option_only_in_cplusplus automatic instantiation mode can be used only when compiling C++
589	cl_implicit_inclusion_option_only_in_cplusplus implicit template inclusion mode can be used only when compiling C++
590	cl_exceptions_option_only_in_cplusplus exception handling option can be used only when compiling C++
591	cl_strict_mode_incompatible_with_pcc strict mode is incompatible with K&R mode
592	cl_strict_mode_incompatible_with_cfront strict mode is incompatible with cfront mode
593	cl_missing_source_file_name missing source file name
594	cl_output_file_incompatible_with_multiple_inputs output files may not be specified when compiling several input files
595	cl_too_many_arguments too many arguments on command line
596	cl_no_output_file_needed an output file was specified, but none is needed
597	cl_il_display_requires_il_file_name IL display requires name of IL file

598	void_template_parameter a template parameter may not have void type
599	too_many_unused_instantiations excessive recursive instantiation of entity-kind "entity" due to instantiate-all mode

Errors 600 to 699

600	cl_strict_mode_incompatible_with_anachronisms strict mode is incompatible with allowing anachronisms
601	void_throw a throw expression may not have void type
602	cl_tim_local_conflicts_with_auto_instantiation local instantiation mode is incompatible with automatic instantiation
603	abstract_class_param_type parameter of abstract class type "type" is not allowed:
604	array_of_abstract_class array of abstract class "type" is not allowed:
605	float_template_parameter floating-point template parameter is nonstandard
606	pragma_must_precede_declaration this pragma must immediately precede a declaration
607	pragma_must_precede_statement this pragma must immediately precede a statement
608	pragma_must_precede_decl_or_stmt this pragma must immediately precede a declaration or statement
609	pragma_may_not_be_used_here this kind of pragma may not be used here
611	partial_override overloaded virtual function "entity" is only partially overridden in entity-kind "entity"

612	specialization_of_called_inline_template_function specific definition of inline template function must precede its first use
613	cl_invalid_error_tag invalid error tag in diagnostic control option:
614	cl_invalid_error_number invalid error number in diagnostic control option:
615	param_type_ptr_to_array_of_unknown_bound parameter type involves pointer to array of unknown bound
616	param_type_ref_array_of_unknown_bound parameter type involves reference to array of unknown bound
617	ptr_to_member_cast_to_ptr_to_function pointer-to-member-function cast to pointer to function
618	no_named_fields struct or union declares no named members
619	nonstd_unnamed_field nonstandard unnamed field GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
620	nonstd_unnamed_member nonstandard unnamed member GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
624	not_a_type_name "xxxx" is not a type name
631	unable_to_get_mapped_memory unable to obtain mapped memory
641	cannot_chdir "xxxx" is not a valid directory
642	cannot_build_temp_file_name cannot build temporary file name

643	restrict_not_allowed "restrict" is not allowed
644	restrict_pointer_to_function a pointer or reference to function type may not be qualified by "restrict"
645	bad_declspec_modifier "xxxx" is an unrecognized __declspec attribute
646	calling_convention_not_allowed a calling convention modifier may not be specified here
647	conflicting_calling_conventions conflicting calling convention modifiers
648	cl_strict_mode_incompatible_with_microsoft strict mode is incompatible with Microsoft mode
649	cl_cfront_incompatible_with_microsoft cfront mode is incompatible with Microsoft mode
650	calling_convention_ignored calling convention specified here is ignored
651	calling_convention_may_not_precede_nested_declarator a calling convention may not be followed by a nested declarator
652	calling_convention_ignored_for_type calling convention is ignored for this type
654	decl_modifiers_incompatible_with_previous_decl declaration modifiers are incompatible with previous declaration
655	decl_modifiers_invalid_for_this_decl the modifier "xxxx" is not allowed on this declaration
656	branch_into_try_block transfer of control into a try block
657	incompatible_inline_specifier_on_specific_decl inline specification is incompatible with previous "entity" (declared at line xxxx)
658	template_missing_closing_brace closing brace of template definition not found

659	cl_wchar_t_option_only_in_cplusplus wchar_t keyword option can be used only when compiling C++
660	bad_pack_alignment invalid packing alignment value
661	exp_int_constant expected an integer constant
662	call_of_pure_virtual call of pure virtual function
663	bad_ident_string invalid source file identifier string
664	template_friend_definition_not_allowed a class template cannot be defined in a friend declaration
665	asm_not_allowed "asm" is not allowed
666	bad_asm_function_def "asm" must be used with a function definition
667	nonstd_asm_function "asm" function is nonstandard
668	nonstd_ellipsis_only_param ellipsis with no explicit parameters is nonstandard
669	nonstd_address_of_ellipsis "&..." is nonstandard
670	bad_address_of_ellipsis invalid use of "&..."
672	const_volatile_ref_init_anachronism temporary used for initial value of reference to const volatile (anachronism)
673	bad_const_volatile_ref_init a reference of type "type" cannot be initialized with a value of type "type"
674	const_volatile_ref_init_from_rvalue initial value of reference to const volatile must be an lvalue

675	cl_SVR4_C_option_only_in_ansi_C SVR4 C compatibility option can be used only when compiling ANSI C
676	using_out_of_scope_declaration using out-of-scope declaration of entity-kind "entity" (declared at line xxxx)
677	cl_strict_mode_incompatible_with_SVR4 strict mode is incompatible with SVR4 C mode
678	cannot_inline_call call of entity-kind "entity" (declared at line xxxx) cannot be inlined
679	cannot_inline entity-kind "entity" cannot be inlined
681	exp_except_or_finally expected __except or __finally
682	leave_must_be_in_try a __leave statement may only be used within a __try
688	not_found_on_pack_alignment_stack "xxxx" not found on pack alignment stack
689	empty_pack_alignment_stack empty pack alignment stack
690	cl_rtti_option_only_in_cplusplus RTTI option can be used only when compiling C++
691	inaccessible_elided_ctor entity-kind "entity" (declared at line xxxx), required for copy that was eliminated, is inaccessible
692	uncallable_elided_ctor entity-kind "entity" (declared at line xxxx), required for copy that was eliminated, is not callable because reference parameter cannot be bound to rvalue
693	typeid_needs_typeinfo <typeinfo> must be included before typeid is used

694	cannot_cast_away_const xxxx cannot cast away const or other type qualifiers
695	bad_dynamic_cast_type the type in a dynamic_cast must be a pointer or reference to a complete class type, or void *
696	bad_ptr_dynamic_cast_operand the operand of a pointer dynamic_cast must be a pointer to a complete class type
697	bad_ref_dynamic_cast_operand the operand of a reference dynamic_cast must be an lvalue of a complete class type
698	dynamic_cast_operand_must_be_polymorphic the operand of a runtime dynamic_cast must have a polymorphic class type
699	cl_bool_option_only_in_cplusplus bool option can be used only when compiling C++

Errors 700 to 799

701	array_type_not_allowed an array type is not allowed here
702	exp_assign expected an "="
703	exp_declarator_in_condition_decl expected a declarator in condition declaration
704	redeclaration_of_condition_decl_name "xxxx", declared in condition, may not be redeclared in this scope
705	default_template_arg_not_allowed default template arguments are not allowed for function templates
706	exp_comma_or_gt expected a ",", " or ">"

707	missing_template_param_list expected a template parameter list
708	incr_of_bool_deprecated incrementing a bool value is deprecated
709	bool_type_not_allowed bool type is not allowed
710	base_class_offset_too_large offset of base class "entity" within class "entity" is too large
711	expr_not_bool expression must have bool type (or be convertible to bool)
712	cl_array_new_and_delete_option_only_in_cplusplus array new and delete option can be used only when compiling C++
713	based_requires_variable_name entity-kind "entity" is not a variable name
714	based_not_allowed_here __based modifier is not allowed here
715	based_not_followed_by_star __based does not precede a pointer operator, __based ignored
716	based_var_must_be_ptr variable in __based modifier must have pointer type
717	bad_const_cast_type the type in a const_cast must be a pointer, reference, or pointer to member to an object type
718	bad_const_cast a const_cast can only adjust type qualifiers; it cannot change the underlying type
719	mutable_not_allowed mutable is not allowed
720	cannot_change_access redeclaration of entity-kind "entity" is not allowed to alter its access

721	nonstd_printf_format_string nonstandard format string conversion
722	probable_inadvertent_lbracket_digraph use of alternative token "<:" appears to be unintended
723	probable_inadvertent_sharp_digraph use of alternative token "%:" appears to be unintended
724	namespace_def_not_allowed namespace definition is not allowed
725	missing_namespace_name name must be a namespace name
726	namespace_alias_def_not_allowed namespace alias definition is not allowed
727	namespace_qualified_name_required namespace-qualified name is required
728	namespace_name_not_allowed a namespace name is not allowed
729	bad_combination_of_dll_attributes invalid combination of DLL attributes
730	sym_not_a_class_template entity-kind "entity" is not a class template
731	array_of_incomplete_type array with incomplete element type is nonstandard
732	allocation_operator_in_namespace allocation operator may not be declared in a namespace
733	deallocation_operator_in_namespace deallocation operator may not be declared in a namespace
734	conflicts_with_using_decl entity-kind "entity" conflicts with using-declaration of entity-kind "entity"
735	using_decl_conflicts_with_prev_decl using-declaration of entity-kind "entity" conflicts with entity-kind "entity" (declared at line xxxx)

736	cl_namespaces_option_only_in_cplusplus namespaces option can be used only when compiling C++
737	useless_using_declaration using-declaration ignored -- it refers to the current namespace
738	class_qualified_name_required a class-qualified name is required
742	not_an_actual_member entity-kind "entity" has no actual member "xxxx"
744	mem_attrib_incompatible incompatible memory attributes specified
745	mem_attrib_ignored memory attribute ignored
746	mem_attrib_may_not_precede_nested_declarator memory attribute may not be followed by a nested declarator
747	dupl_mem_attrib memory attribute specified more than once
748	dupl_calling_convention calling convention specified more than once
749	type_qualifier_not_allowed a type qualifier is not allowed
750	template_instance_already_used entity-kind "entity" (declared at line xxxx) was used before its template was declared
751	static_nonstatic_with_same_param_types static and nonstatic member functions with same parameter types cannot be overloaded
752	no_prior_declaration no prior declaration of entity-kind "entity"
753	template_id_not_allowed a template-id is not allowed
754	class_qualified_name_not_allowed a class-qualified name is not allowed

755	bad_scope_for_redeclaration entity-kind "entity" may not be redeclared in the current scope
756	qualifier_in_namespace_member_decl qualified name is not allowed in namespace member declaration
757	sym_not_a_type_name entity-kind "entity" is not a type name
758	explicit_instantiation_not_in_namespace_scope explicit instantiation is not allowed in the current scope
759	bad_scope_for_explicit_instantiation entity-kind "entity" cannot be explicitly instantiated in the current scope
760	multiple_explicit_instantiations entity-kind "entity" explicitly instantiated more than once
761	typename_not_in_template typename may only be used within a template
762	cl_special_subscript_cost_option_only_in_cplusplus special_subscript_cost option can be used only when compiling C++
763	cl_typename_option_only_in_cplusplus typename option can be used only when compiling C++
764	cl_implicit_typename_option_only_in_cplusplus implicit typename option can be used only when compiling C++
765	nonstd_character_at_start_of_macro_def nonstandard character at start of object-like macro definition
766	exception_spec_override_incompat exception specification for virtual entity-kind "entity" is incompatible with that of overridden entity-kind "entity"
767	pointer_conversion_loses_bits conversion from pointer to smaller integer
768	generated_exception_spec_override_incompat exception specification for implicitly declared virtual entity-kind "entity" is incompatible with that of overridden entity-kind "entity"

769	implicit_call_of_ambiguous_name "entity", implicitly called from entity-kind "entity", is ambiguous
770	cl_explicit_option_only_in_cplusplus option "explicit" can be used only when compiling C++
771	explicit_not_allowed "explicit" is not allowed
772	conflicts_with_predeclared_type_info declaration conflicts with "xxxx" (reserved class name) The compiler emits this non-discretionary diagnostic whenever it encounters a definition of class <code>std::type_info</code> outside the standard header <code><typeinfo></code> . Instances of this class are created and exposed to the programmer via the C++ language operator <code>typeid</code> ; therefore, a program that defines its own, incompatible version of class <code>std::type_info</code> may exhibit undefined behavior. To define your own version of class <code>std::type_info</code> , but suppress this diagnostic, precede the class definition with <code>#pragma define_type_info</code> . A correct definition of this class must preserve the member and vtable layout assumed by the compiler's <code>typeid</code> machinery. The following example is an acceptable definition: <pre>namespace std { #pragma define_type_info class type_info { virtual ~type_info(); }; }</pre> We recommend that you do not attempt to provide your own definition of this class. However, you might see this error if you are using standard C++ libraries other than the ones provided with your Green Hills compiler distribution.
773	array_member_initialization only "()" is allowed as initializer for array entity-kind "entity"
774	virtual_function_template "virtual" is not allowed in a function template declaration
775	anon_union_class_member_template invalid anonymous union -- class member template is not allowed

776	template_depth_mismatch template nesting depth does not match the previous declaration of entity-kind "entity"
777	multiple_template_decls_not_allowed this declaration cannot have multiple "template <...>" clauses
778	cl_old_for_init_option_only_in_cplusplus option to control the for-init scope can be used only when compiling C++
779	redeclaration_of_for_init_decl_name "xxxx", declared in for-loop initialization, may not be redeclared in this scope
780	hidden_by_old_for_init reference is to entity-kind "entity" (declared at line xxxx) -- under old for-init scoping rules it would have been entity-kind "entity" (declared at line xxxx)
781	cl_for_init_diff_warning_option_only_in_cplusplus option to control warnings on for-init differences can be used only when compiling C++
782	unnamed_class_virtual_function_def_missing definition of virtual entity-kind "entity" is required here
783	svr4_token_pasting_comment empty comment interpreted as token-pasting operator "##"
784	storage_class_in_friend_decl a storage class is not allowed in a friend declaration
785	templ_param_list_not_allowed template parameter list for "entity" is not allowed in this declaration
786	bad_member_template_sym entity-kind "entity" is not a valid member class or function template
787	bad_member_template_decl not a valid member class or function template declaration

788	specialization_follows_param_list a template declaration containing a template parameter list may not be followed by an explicit specialization declaration
789	specialization_of_referenced_template explicit specialization of entity-kind "entity" must precede the first use of entity-kind "entity"
790	explicit_specialization_not_in_namespace_scope explicit specialization is not allowed in the current scope
791	partial_specialization_not_allowed partial specialization of entity-kind "entity" is not allowed
792	entity_cannot_be_specialized entity-kind "entity" is not an entity that can be explicitly specialized
793	specialization_of_referenced_entity_pos explicit specialization of entity-kind "entity" must precede its first use (at line xxxx)
794	template_param_in_elab_type template parameter "xxxx" may not be used in an elaborated type specifier
795	old_specialization_not_allowed specializing entity-kind "entity" requires "template<>" syntax
798	cl_old_specializations_option_only_in_cplusplus option "old_specializations" can be used only when compiling C++
799	nonstd_old_specialization specializing entity-kind "entity" without "template<>" syntax is nonstandard

Errors 800 to 899

800	bad_linkage_for_decl this declaration may not have extern "C" linkage
801	not_a_template_name "xxxx" is not a class or function template name in the current scope

802	nonstd_default_arg_on_function_template_redecl specifying a default argument when redeclaring an unreferenced function template is nonstandard
803	default_arg_on_function_template_not_allowed specifying a default argument when redeclaring an already referenced function template is not allowed
804	pm_derived_class_from_virtual_base cannot convert pointer to member of base class "type" to pointer to member of derived class "type" -- base class is virtual
805	bad_exception_specification_for_specialization exception specification is incompatible with that of entity-kind "entity" (declared at line xxxx):
806	omitted_exception_specification_on_specialization omission of exception specification is incompatible with entity-kind "entity" (declared at line xxxx)
807	unexpected_end_of_default_arg unexpected end of default argument expression
808	default_init_of_reference default-initialization of reference is not allowed
809	uninitialized_field_with_const_member uninitialized entity-kind "entity" has a const member
810	uninitialized_base_class_with_const_member uninitialized base class "type" has a const member
811	missing_default_constructor_on_const const entity-kind "entity" requires an initializer -- class "type" has no explicitly declared default constructor
812	missing_default_constructor_on_unnamed_const const object requires an initializer -- class "type" has no explicitly declared default constructor
813	cl_impl_extern_c_conv_option_only_in_cplusplus option "implicit_extern_c_type_conversion" can be used only when compiling C++
814	cl_strict_mode_incompatible_with_long_preserving strict mode is incompatible with long preserving rules

815	useless_type_qualifier_on_return_type type qualifier on return type is meaningless
816	type_qualifier_on_void_return_type in a function definition a type qualifier on a "void" return type is not allowed
817	static_data_member_not_allowed static data member declaration is not allowed in this class
818	invalid_declaration template instantiation resulted in an invalid function declaration
819	ellipsis_not_allowed "..." is not allowed
820	cl_extern_inline_option_only_in_cplusplus option "extern_inline" can be used only when compiling C++
821	extern_inline_never_defined extern inline entity-kind "entity" was referenced but not defined
822	invalid_destructor_name invalid destructor name for type "type"
824	ambiguous_destructor destructor reference is ambiguous -- both entity-kind "entity" and entity-kind "entity" could be used
825	virtual_inline_never_defined virtual inline entity-kind "entity" was never defined
826	unreferenced_function_param entity-kind "entity" was never referenced
827	union_already_initialized only one member of a union may be specified in a constructor initializer list
828	no_array_new_and_delete_support support for "new[]" and "delete[]" is disabled
829	double_for_long_double "double" used for "long double" in generated C code

830	no_corresponding_delete entity-kind "entity" has no corresponding operator delete (to be called if an exception is thrown during initialization of an allocated object)
831	useless_placement_delete support for placement delete is disabled
832	no_appropriate_delete no appropriate operator delete is visible
833	ptr_or_ref_to_incomplete_type pointer or reference to incomplete type is not allowed
834	bad_partial_specialization invalid partial specialization -- entity-kind "entity" is already fully specialized
835	incompatible_exception_specs incompatible exception specifications
836	returning_ref_to_local_variable returning reference to local variable
837	nonstd_implicit_int omission of explicit type is nonstandard ("int" assumed) GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
838	ambiguous_partial_spec more than one partial specialization matches the template argument list of entity-kind "entity"
840	partial_spec_is_primary_template a template argument list is not allowed in a declaration of a primary template
841	default_not_allowed_on_partial_spec partial specializations may not have default template arguments
842	not_used_in_partial_spec_arg_list entity-kind "entity" is not used in or cannot be deduced from the template argument list of entity-kind "entity"

844	partial_spec_arg_depends_on_tmpl_param the template argument list of the partial specialization includes a nontype argument whose type depends on a template parameter
845	partial_spec_after_instantiation this partial specialization would have been used to instantiate entity-kind "entity"
846	partial_spec_after_instantiation_ambiguous this partial specialization would have made the instantiation of entity-kind "entity" ambiguous
847	expr_not_integral_or_enum expression must have integral or enum type
848	expr_not_arithmetic_or_enum expression must have arithmetic or enum type
849	expr_not_arithmetic_or_enum_or_pointer expression must have arithmetic, enum, or pointer type
850	cast_not_integral_or_enum type of cast must be integral or enum
851	cast_not_arithmetic_or_enum_or_pointer type of cast must be arithmetic, enum, or pointer
852	expr_not_object_pointer expression must be a pointer to a complete object type
854	partial_spec_nontype_expr a partial specialization nontype argument must be the name of a nontype parameter or a constant
855	different_return_type_on_virtual_function_override return type is not identical to return type "type" of overridden virtual function entity-kind "entity"
856	cl_guiding_decls_option_only_in_cplusplus option "guiding_decls" can be used only when compiling C++
857	member_partial_spec_not_in_namespace a partial specialization of a class template must be declared in the namespace of which it is a member

858	pure_virtual_function entity-kind "entity" is a pure virtual function
859	no_overrider_for_pure_virtual_function pure virtual entity-kind "entity" has no overrider
860	decl_modifiers_ignored __declspec attributes ignored
861	invalid_char invalid character in input line
862	incomplete_return_type function returns incomplete type "type"
863	local_pragma_pack effect of this "#pragma pack" directive is local to entity-kind "entity"
864	not_a_template xxxx is not a template
865	friend_partial_specialization a friend declaration may not declare a partial specialization
866	exception_specification_ignored exception specification ignored
867	unexpected_type_for_size_t declaration of "size_t" does not match the expected type "type"
868	exp_gt_not_shift_right space required between adjacent ">" delimiters of nested template argument lists (">>" is the right shift operator)
869	bad_multibyte_char_locale could not set locale "xxxx" to allow processing of multibyte characters
870	bad_multibyte_char invalid multibyte character sequence
871	bad_type_from_instantiation template instantiation resulted in unexpected function type of "type" (the meaning of a name may have changed since the template declaration -- the type of the template is "type")

872	ambiguous_guiding_decl ambiguous guiding declaration -- more than one function template "entity" matches type "type"
873	non_integral_operation_in_tmpl_arg non-integral operation not allowed in nontype template argument
874	cl_embedded_cplusplus_option_only_in_cplusplus option "embedded_c++" can be used only when compiling C++
875	templates_in_embedded_cplusplus Embedded C++ does not support templates
876	exceptions_in_embedded_cplusplus Embedded C++ does not support exception handling
877	namespaces_in_embedded_cplusplus Embedded C++ does not support namespaces
878	rtti_in_embedded_cplusplus Embedded C++ does not support run-time type information
879	new_cast_in_embedded_cplusplus Embedded C++ does not support the new cast syntax
880	using_decl_in_embedded_cplusplus Embedded C++ does not support using-declarations
881	mutable_in_embedded_cplusplus Embedded C++ does not support "mutable"
882	multiple_inheritance_in_embedded_cplusplus Embedded C++ does not support multiple or virtual inheritance
883	cl_invalid_microsoft_version invalid Microsoft version number:
884	inheritance_kind_already_set pointer-to-member representation "xxxx" has already been set for entity-kind "entity"
885	bad_constructor_type "type" cannot be used to designate constructor for "type"
886	bad_suffix invalid suffix on integral constant

887	uuidof_requires_uuid_class_type operand of <code>__uuidof</code> must have a class or enum type for which <code>__declspec(uuid("..."))</code> has been specified
888	bad_uuid_string invalid GUID string in <code>__declspec(uuid("..."))</code>
889	cl_vla_option_only_in_C option "vla" can be used only when compiling C
890	vla_with_unspecified_bound_not_allowed variable length array with unspecified bound is not allowed
891	explicit_template_args_not_allowed an explicit template argument list is not allowed on this declaration
892	variably_modified_type_not_allowed an entity with linkage cannot have a type involving a variable length array
893	vla_is_not_auto a variable length array cannot have static storage duration
894	sym_not_a_template entity-kind "entity" is not a template
896	expected_template_arg expected a template argument
898	no_params_with_class_or_enum_type nonmember operator requires a parameter with class or enum type
899	cl_enum_overloading_option_only_in_cplusplus option "enum_overloading" can be used only when compiling C++

Errors 900 to 999

901	destructor_qualifier_type_mismatch qualifier of destructor name "type" does not match type "type"
902	type_qualifier_ignored type qualifier ignored

903	cl_nonstandard_qualifier_deduction_option_only_in_cplusplus option "nonstd_qualifier_deduction" can be used only when compiling C++
904	cannot_define_dllimport_function a function declared "dllimport" may not be defined
905	bad_declspec_property incorrect property specification; correct form is <code>__declspec(property(get=name1,put=name2))</code>
906	dupl_get_or_put property has already been specified
907	declspec_property_not_allowed <code>__declspec(property)</code> is not allowed on this declaration
908	no_get_property member is declared with <code>__declspec(property)</code> , but no "get" function was specified
909	get_property_function_missing the <code>__declspec(property)</code> "get" function "xxxx" is missing
910	no_put_property member is declared with <code>__declspec(property)</code> , but no "put" function was specified
911	put_property_function_missing the <code>__declspec(property)</code> "put" function "xxxx" is missing
912	dual_lookup_ambiguous_name ambiguous class member reference -- entity-kind "entity" (declared at line xxxx) used in preference to entity-kind "entity" (declared at line xxxx)
913	bad_allocate_segname missing or invalid segment name in <code>__declspec(allocate("..."))</code>
914	declspec_allocate_not_allowed <code>__declspec(allocate)</code> is not allowed on this declaration
915	dupl_allocate_segname a segment name has already been specified

916	pm_virtual_base_from_derived_class cannot convert pointer to member of derived class "type" to pointer to member of base class "type" -- base class is virtual
917	cl_invalid_instantiation_directory invalid directory for instantiation files:
918	cl_one_instantiation_per_object_option_only_in_cplusplus option "one_instantiation_per_object" can be used only when compiling C++
919	invalid_output_file invalid output file: "xxxx"
920	cannot_open_output_file cannot open output file: "xxxx"
921	cl_ii_file_name_incompatible_with_multiple_inputs an instantiation information file name may not be specified when compiling several input files
922	cl_one_instantiation_per_object_incompatible_with_multiple_inputs option "one_instantiation_per_object" may not be used when compiling several input files
923	cl_ambiguous_option more than one command line option matches the abbreviation "--xxxx":
925	cv_qualified_function_type type qualifiers on function types are ignored
926	cannot_open_definition_list_file cannot open definition list file: "xxxx"
927	cl_late_tiebreaker_option_only_in_cplusplus late/early tiebreaker option can be used only when compiling C++
928	bad_va_start incorrect use of va_start
929	bad_va_arg incorrect use of va_arg
930	bad_va_end incorrect use of va_end

931	cl_pending_instantiations_option_only_in_cplusplus pending instantiations option can be used only when compiling C++
932	cl_invalid_import_directory invalid directory for #import files:
933	cl_import_only_in_microsoft an import directory can be specified only in Microsoft mode
934	ref_not_allowed_in_union a member with reference type is not allowed in a union
935	typedef_not_allowed "typedef" may not be specified here
936	redecl_changes_access redeclaration of entity-kind "entity" alters its access
937	qualified_name_required a class or namespace qualified name is required
938	implicit_int_on_main return type "int" omitted in declaration of function "main" GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
939	invalid_inheritance_kind_for_class pointer-to-member representation "xxxx" is too restrictive for entity-kind "entity"
940	implicit_return_from_non_void_function missing return statement at end of non-void entity-kind "entity" GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
941	duplicate_using_decl duplicate using-declaration of "entity" ignored
942	unsigned_enum_bit_field_with_signed_enumerator enum bit-fields are always unsigned, but enum "type" includes negative enumerator

943	cl_class_name_injection_option_only_in_cplusplus option "class_name_injection" can be used only when compiling C++
944	cl_arg_dependent_lookup_option_only_in_cplusplus option "arg_dep_lookup" can be used only when compiling C++
945	cl_friend_injection_option_only_in_cplusplus option "friend_injection" can be used only when compiling C++
946	invalid_name_after_template name following "template" must be a template
948	local_class_friend_requires_prior_decl nonstandard local-class friend declaration -- no prior declaration in the enclosing scope
949	nonstd_default_arg specifying a default argument on this declaration is nonstandard
950	cl_nonstd_using_decl_option_only_in_cplusplus option "nonstd_using_decl" can be used only when compiling C++
951	bad_return_type_on_main return type of function "main" must be "int"
952	template_parameter_has_class_type a nontype template parameter may not have class type
953	default_arg_on_member_decl a default template argument cannot be specified on the declaration of a member of a class template outside of its class
954	return_from_ctor_function_try_block_handler a return statement is not allowed in a handler of a function try block of a constructor
955	no_ordinary_and_extended_designators ordinary and extended designators cannot be combined in an initializer designation
956	no_negative_designator_range the second subscript must not be smaller than the first
957	cl_designators_option_only_in_C option "designators" can be used only when compiling C

958	cl_extended_designators_option_only_in_C option "extended_designators" can be used only when compiling C
959	extra_bits_ignored declared size for bit field is larger than the size of the bit field type; truncated to xxxx bits
960	constructor_type_mismatch type used as constructor name does not match type "type"
961	type_with_no_linkage_in_var_with_linkage use of a type with no linkage to declare a variable with linkage
962	type_with_no_linkage_in_function use of a type with no linkage to declare a function
963	return_type_on_constructor return type may not be specified on a constructor
964	return_type_on_destructor return type may not be specified on a destructor
965	malformed_universal_character incorrectly formed universal character name
966	invalid_UCN universal character name specifies an invalid character
967	UCN_names_basic_char a universal character name cannot designate a character in the basic character set
968	invalid_identifier_UCN this universal character is not allowed in an identifier
969	VA_ARGS_not_allowed the identifier <code>__VA_ARGS__</code> can only appear in the replacement lists of variadic macros
970	friend_qualification_ignored the qualifier on this friend declaration is ignored
971	no_range_designator_with_dynamic_init array range designators cannot be applied to dynamic initializers

972	property_name_not_allowed property name cannot appear here
973	inline_qualifier_ignored "inline" used as a function qualifier is ignored
974	cl_compound_literals_option_only_in_C option "compound_literals" can be used only when compiling C
975	vla_not_allowed a variable-length array type is not allowed
976	bad_integral_compound_literal a compound literal is not allowed in an integral constant expression
977	bad_compound_literal_type a compound literal of type "type" is not allowed
978	friend_template_in_local_class a template friend declaration cannot be declared in a local class
979	ambiguous_question_operator ambiguous "?" operation: second operand of type "type" can be converted to third operand type "type", and vice versa
980	bad_call_of_class_object call of an object of a class type without appropriate operator() or conversion functions to pointer-to-function type
982	ambiguous_class_call there is more than one way an object of type "type" can be called for the argument list:
983	similar_typedef typedef name has already been declared (with similar type)
984	no_internal_linkage_for_new_or_delete operator new and operator delete cannot be given internal linkage
985	no_mutable_allowed_on_anonymous_union storage class "mutable" is not allowed for anonymous unions
987	abstract_class_catch_type abstract class type "type" is not allowed as catch type:

988	bad_qualified_function_type a qualified function type cannot be used to declare a nonmember function or a static member function
989	bad_qualified_function_type_parameter a qualified function type cannot be used to declare a parameter
990	ptr_or_ref_to_qualified_function_type cannot create a pointer or reference to qualified function type
991	nonstd_braces extra braces are nonstandard GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
992	bad_cmd_line_macro invalid macro definition:
993	nonstandard_ptr_minus_ptr subtraction of pointer types "type" and "type" is nonstandard
994	empty_template_param_list an empty template parameter list is not allowed in a template template parameter declaration
995	exp_class expected "class"
996	struct_not_allowed the "class" keyword must be used when declaring a template template parameter
997	virtual_function_decl_hidden entity-kind "entity" is hidden by "entity" -- virtual function override intended?
998	no_qualified_friend_definition a qualified name is not allowed for a friend declaration that is a function definition
999	not_compatible_with_tmpl_tmpl_param entity-kind "entity" is not compatible with entity-kind "entity"

Errors 1000 to 1099

1000	storage_class_requires_function_or_variable a storage class may not be specified here
1001	member_using_must_be_visible_in_direct_base class member designated by a using-declaration must be visible in a direct base class
1003	cl_sun_incompatible_with_cfront Sun mode is incompatible with cfront mode
1004	cl_strict_mode_incompatible_with_sun strict mode is incompatible with Sun mode
1005	cl_sun_mode_only_in_cplusplus Sun mode is only allowed when compiling C++
1006	template_template_param_same_name_as_tmpl_param a template template parameter cannot have the same name as one of its template parameters
1007	recursive_def_arg_instantiation recursive instantiation of default argument
1009	bad_template_name entity-kind "entity" is not an entity that can be defined
1010	destructor_name_must_be_qualified destructor name must be qualified
1011	no_typename_in_friend_class_decl friend class name may not be introduced with "typename"
1012	no_ctor_or_dtor_using_declaration a using-declaration may not name a constructor or destructor
1013	friend_is_nonreal_template a qualified friend template declaration must refer to a specific previously declared template
1014	bad_class_template_decl invalid specifier in class template declaration
1015	simple_incompatible_param argument is incompatible with formal parameter

1016	cl_dep_name_option_only_in_cplusplus option "dep_name" can be used only when compiling C++
1017	op_arrow_loop loop in sequence of "operator->" functions starting at class "type"
1018	not_a_member_class entity-kind "entity" has no member class "xxxx"
1019	name_not_class_in_file_scope the global scope has no class named "xxxx"
1020	recursive_inst_of_tmpl_default_arg recursive instantiation of template default argument
1021	no_access_or_using_decl_in_union access declarations and using-declarations cannot appear in unions
1022	not_class_member "entity" is not a class member
1023	nonstd_const_member_decl_not_allowed nonstandard member constant declaration is not allowed
1024	cl_ignore_std_option_only_in_cplusplus option "ignore_std" can be used only when compiling C++
1025	cl_parse_nonclass_templates_option_only_in_cplusplus option "parse_templates" can be used only when compiling C++
1026	cl_dep_name_requires_parse_nonclass_templates option "dep_name" cannot be used with "no_parse_templates"
1027	cl_incompatible_language_modes language modes specified are incompatible
1028	invalid_nested_class_redecl invalid redeclaration of nested class
1029	flexible_array_member_not_allowed type containing an unknown-size array is not allowed

1030	static_variable_in_inline_function a variable with static storage duration cannot be defined within an inline function
1031	bad_linkage_of_ref_within_inline_function an entity with internal linkage cannot be referenced within an inline function with external linkage
1032	type_generic_function_mismatch argument type "type" does not match this type-generic function macro
1034	friend_cannot_add_default_arguments friend declaration cannot add default arguments to previous declaration
1035	cannot_be_declared_in_scope entity-kind "entity" cannot be declared in this scope
1036	id_can_only_appear_in_function the reserved identifier "xxxx" may only be used inside a function
1037	invalid_identifier_start_UCN this universal character cannot begin an identifier
1038	exp_string_literal expected a string literal
1039	unrecognized_std_c_pragma unrecognized STDC pragma
1040	bad_std_c_pragma_arg expected "ON", "OFF", or "DEFAULT"
1041	std_c_pragma_not_allowed_here a STDC pragma may only appear between declarations in the global scope or before any statements or declarations in a block scope
1042	bad_va_copy incorrect use of va_copy
1043	only_applies_to_float_types xxxx can only be used with floating-point types
1044	complex_type_not_allowed complex type is not allowed

1045	invalid_designator_kind invalid designator kind
1046	inexact_fp_conversion floating-point value cannot be represented exactly
1047	bad_complex_operation_result complex floating-point operation result is out of range
1048	real_imaginary_conversion conversion between real and imaginary yields zero
1049	cannot_initialize_flexible_array_member an initializer cannot be specified for a flexible array member
1050	imaginary_times_assign imaginary *= imaginary sets the left-hand operand to zero
1051	undeclared_parameter standard requires that entity-kind "entity" be given a type by a subsequent declaration ("int" assumed)
1052	inline_never_defined a definition is required for inline entity-kind "entity"
1053	conversion_to_pointer_loses_bits conversion from integer to smaller pointer
1054	missing_floating_point_type a floating-point type must be included in the type specifier for a <code>_Complex</code> or <code>_Imaginary</code> type
1055	type_decl_in_anon_union types cannot be declared in anonymous unions
1056	returning_ptr_to_local_variable returning pointer to local variable GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1057	returning_ptr_to_local_temp returning pointer to local temporary
1058	cl_export_template_option_only_in_cplusplus option "export" can be used only when compiling C++

1059	cl_export_template_requires_dep_name option "export" cannot be used with "no_dep_name"
1060	cl_export_template_requires_no_implicit_include option "export" cannot be used with "implicit_include"
1061	corresp_decl_incompatible declaration of entity-kind "entity" is incompatible with a declaration in another translation unit
1062	corresp_decl_at the other declaration is at line xxxx
1065	field_cannot_involve_vla_type a field declaration cannot have a type involving a variable length array
1066	entity_differs_in_other_trans_unit declaration of entity-kind "entity" had a different meaning during compilation of "xxxx"
1067	exp_template expected "template"
1068	export_on_instantiation "export" cannot be used on an explicit instantiation
1069	bad_decl_for_export "export" cannot be used on this declaration
1070	exported_in_unnamed_namespace a member of an unnamed namespace cannot be declared "export"
1071	export_after_definition a template cannot be declared "export" after it has been defined
1072	labeled_declaration a declaration cannot have a label
1073	no_export_support support for exported templates is disabled
1074	cannot_open_exported_template_file cannot open exported template file: "xxxx"

1075	entity_defined_in_other_trans_unit entity-kind "entity" already defined during compilation of "xxxx"
1076	entity_defined_twice entity-kind "entity" already defined in another translation unit
1077	based_var_cannot_be_local a nonstatic local variable may not be used in a __based specification
1078	cl_list_make_dependencies_incompatible_with_multiple_trans_units the option to list makefile dependencies may not be specified when compiling more than one translation unit
1080	cl_pp_output_incompatible_with_multiple_trans_units the option to generate preprocessed output may not be specified when compiling more than one translation unit
1081	field_name_conflicts_with_class a field with the same name as its class cannot be declared in a class with a user-declared constructor
1082	cl_implicit_include_incompatible_with_multiple_trans_units "implicit_include" cannot be used when compiling more than one translation unit
1083	corrupted_export_template_file exported template file "xxxx" is corrupted
1084	exported_instantiation_and_specialized entity-kind "entity" cannot be instantiated -- it has been explicitly specialized in the translation unit containing the exported definition
1086	unqual_named_function_with_qual_object the object has cv-qualifiers that are not compatible with the member entity-kind "entity"
1087	no_matching_function_due_to_selector no instance of entity-kind "entity" matches the argument list and object (the object has cv-qualifiers that prevent a match)
1088	mode_incompatible_with_type an attribute specifies a mode incompatible with "type"

1089	no_type_of_specified_width there is no type with the width specified
1090	bad_attribute_alignment invalid alignment value specified by attribute
1091	attribute_does_not_apply_to_type invalid attribute for "type"
1092	attribute_does_not_apply invalid attribute for entity-kind "entity"
1093	attribute_does_not_apply_to_param invalid attribute for parameter
1094	arguments_provided_for_attribute attribute "xxxx" does not take arguments
1096	exp_attribute_name expected an attribute name
1097	unrecognized_attribute attribute "xxxx" ignored
1098	attribute_not_allowed attributes may not appear here
1099	invalid_argument_to_attribute invalid argument to attribute "xxxx"

Errors 1100 to 1199

1100	packed_attribute_ignored_in_typedef the "packed" attribute is ignored in this context
1101	assigned_goto_requires_void_ptr in "goto *expr", expr must have type "void *"
1102	nonstd_assigned_goto "goto *expr" is nonstandard
1103	nonstd_address_of_label taking the address of a label is nonstandard

1104	cl_duplicate_file_name file name specified more than once:
1105	warning_directive #warning directive: xxxx
1106	attribute_only_in_func_def attribute "xxxx" is only allowed in a function definition
1107	transparent_type_is_not_union the "transparent_union" attribute only applies to unions, and "type" is not a union
1108	transparent_attribute_ignored the "transparent_union" attribute is ignored on incomplete types
1109	union_cannot_be_transparent_sym "type" cannot be transparent because entity-kind "entity" does not have the same size as the first field
1110	union_cannot_be_transparent "type" cannot be transparent because it has a field of type "type" which is not the same size as the first field
1111	transparent_variable only parameters can be transparent
1112	attribute_does_not_apply_to_local_variable the "xxxx" attribute does not apply to local variables
1113	attributes_in_rout_defn attributes are not permitted in a function definition
1114	local_labels_only_in_statement_expressions declarations of local labels should only appear at the start of statement expressions
1115	invalid_case_range the second constant in a case range must be larger than the first
1116	asm_name_in_rout_defn an asm name is not permitted in a function definition
1117	asm_name_in_typedef an asm name is ignored in a typedef

1118	bad_reg_name unknown register name "xxxx"
1119	asm_modifier_ignored modifier letter "xxxx" ignored in asm operand
1120	bad_asm_constraint_modifier unknown asm constraint modifier "xxxx"
1121	bad_asm_constraint_letter unknown asm constraint letter "xxxx"
1122	missing_constraint_letter asm operand has no constraint letter
1123	asm_output_must_have_output_mod an asm output operand must have one of the '=' or '+' modifiers
1124	asm_input_must_not_have_output_mod an asm input operand may not have the '=' or '+' modifiers
1125	too_many_asm_operands too many operands to asm statement (maximum is 100)
1126	too_many_asm_colons too many colons in asm statement
1127	register_used_twice register "xxxx" used more than once
1128	register_used_and_clobbered register "xxxx" is both used and clobbered
1129	register_clobbered_twice register "xxxx" clobbered more than once
1130	fixed_register_used register "xxxx" has a fixed purpose and may not be used in an asm statement
1131	fixed_register_clobbered register "xxxx" has a fixed purpose and may not be clobbered in an asm statement
1132	empty_clobbers_list an empty clobbers list must be omitted entirely

1133	exp_asm_operand expected an asm operand
1134	exp_asm_clobber expected a register to clobber
1135	format_rout_not_varargs "format" attribute applied to entity-kind "entity" which does not have variable arguments
1136	subst_arg_is_not_variable first substitution argument is not the first variable argument
1137	fmt_arg_does_not_exist format argument index is greater than number of parameters
1138	fmt_arg_is_not_string format argument does not have string type
1139	template_not_in_template the "template" keyword used for syntactic disambiguation may only be used within a template
1142	attr_requires_func_type attribute does not apply to non-function type "type"
1143	nonobject_pointer_arithmetic arithmetic on pointer to void or function type
1144	invalid_storage_class_in_for_init storage class must be auto or register
1145	va_arg_would_have_been_promoted "type" would have been promoted to "type" when passed through the ellipsis parameter; use the latter type instead
1146	not_a_base_class_member "xxxx" is not a base class member
1147	super_after_scope __super cannot appear after "::"
1148	super_not_in_class __super may only be used in a class scope

1149	unqualified_super __super must be followed by "::"
1151	mangled_name_too_long mangled name is too long
1152	aliased_name_undeclared declaration aliased to undefined entity "xxxx"
1153	aliased_name_bad_kind declaration does not match its alias entity-kind "entity"
1154	alias_cannot_have_definition entity declared as alias cannot have definition
1155	vla_size_ignored variable-length array field type will be treated as zero-length array field type
1156	gcc_lvalue_cast_ignored nonstandard cast on lvalue ignored
1157	cl_invalid_flag_name unrecognized flag name
1158	qualified_void_return_type void return type cannot be qualified
1159	auto_ignored the auto specifier is ignored here (invalid in standard C/C++)
1160	alignment_reduction_ignored a reduction in alignment without the "packed" attribute is ignored
1161	corresp_member_template_is_different_kind a member template corresponding to "entity" is declared as a template of a different kind in another translation unit
1162	excess_initializers_ignored excess initializers are ignored GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

1163	va_start_requires_ellipsis_function va_start should only appear in a function with an ellipsis parameter
1164	cl_short_enums_requires_gcc_mode the "short_enums" option is only valid in GNU C and GNU C++ modes
1165	bad_export_info_file invalid export information file "xxxx" at line number xxxx
1166	statement_expression_in_function_only statement expressions are only allowed in block scope
1168	asm_name_on_auto_variable an asm name is ignored on a non-register automatic variable
1169	ignoring_inline_definition_because_of_alias inline function also declared as an alias; definition ignored
1170	unrecognized_upc_pragma unrecognized UPC pragma
1171	mismatched_shared_block_size shared block size does not match one previously specified
1172	ambiguous_block_size_spec bracketed expression is assumed to be a block size specification rather than an array dimension
1173	shared_block_size_must_be_positive the block size of a shared array must be greater than zero
1174	multiple_block_sizes multiple block sizes not allowed
1175	nonshared_strict_relaxed strict or relaxed requires shared
1176	threads_constant_not_allowed THREADS not allowed in this context
1177	shared_block_size_too_large block size specified exceeds the maximum value of xxxx
1178	function_returning_shared function returning shared is not allowed

1180	shared_nonthreads_dim one dimension of an array of a shared type must be a multiple of THREADS when the number of threads is nonconstant
1181	shared_inside_struct shared type inside a struct or union is not allowed
1182	shared_parameter parameters may not have shared types
1183	threads_dimension_requires_definite_block_size a dynamic THREADS dimension requires a definite block size
1184	bad_shared_storage_class shared variables must be static or extern
1185	nonshared_blocksizeof argument of upc_blocksizeof is a pointer to a shared type (not shared type itself)
1186	nested_upc_forall affinity expression ignored in nested upc_forall
1187	exit_forall branching into or out of a upc_forall loop is not allowed
1188	bad_affinity affinity expression must have a shared type or point to a shared type
1189	shared_affinity_type affinity has shared type (not pointer to shared)
1190	upc_shared_void_comparison shared void* types can only be compared for equality
1191	cl_upc_requires_ansi_c_dialect UPC mode is incompatible with C++ and K&R modes
1192	null_char_ignored null (zero) character in input line ignored
1193	null_char_in_string null (zero) character in string or character constant

1194	null_char_in_header_name null (zero) character in header name
1195	for_init_hides_declaration declaration in for-initializer hides a declaration in the surrounding scope
1196	for_init_hidden_declaration the hidden declaration is at line xxxx
1197	prototype_lost the prototype declaration of entity-kind "entity" (declared at line xxxx) is ignored after this unprototyped redeclaration
1199	bad_linkage_for_redefine_extname entity-kind "entity" (declared at line xxxx) must have external C linkage

Errors 1200 to 1299

1200	declaration_hides_for_init variable declaration hides declaration in for-initializer
1201	typedef_in_elab_type typedef "xxxx" may not be used in an elaborated type specifier
1202	call_of_zero call of zero constant ignored
1203	handler_redeclares_parameter parameter "xxxx" may not be redeclared in a catch clause of function try block
1204	specialization_out_of_namespace the initial explicit specialization of entity-kind "entity" must be declared in the namespace containing the template
1205	cc_clobber_ignored "cc" clobber ignored
1206	invalid_token_after_template "template" must be followed by an identifier

1207	mythread_constant_not_allowed MYTHREAD not allowed in this context
1208	bad_upc_shared_pointer_layout_qualifier layout qualifier cannot qualify pointer to shared
1209	bad_upc_shared_array_layout_qualifier layout qualifier cannot qualify an incomplete array
1210	decl_hides_catch_parameter declaration of "xxxx" hides handler parameter
1211	nonstd_ignored_array_cast nonstandard cast to array type ignored
1212	invalid_pragma_operator this pragma cannot be used in a _Pragma operator (a #pragma directive must be used)
1213	field_uses_tail_padding field uses tail padding of a base class
1214	gnu_may_use_bit_padding GNU C++ compilers may use bit field padding
1215	deprecated_entity entity-kind "entity" (declared at line xxxx) was declared "deprecated"
1216	field_with_asm_name_not_allowed an asm name is not allowed on a nonstatic member declaration
1217	unrecognized_format_function_type unrecognized format function type "xxxx" ignored
1218	base_uses_tail_padding base class "entity" uses tail padding of base class "entity"
1219	bad_variable_for_init_priority the "init_priority" attribute can only be used for definitions of static data members and namespace scope variables of class types
1220	init_priority_reserved requested initialization priority is reserved for internal use

1221	hidden_anonymous_union_field this anonymous union/struct field is hidden by entity-kind "entity" (declared at line xxxx)
1222	invalid_error_number invalid error number
1223	invalid_error_tag invalid error tag
1224	exp_error_argument expected an error number or error tag
1225	size_affected_by_tail_padding size of class is affected by tail padding
1226	nonlocal_label_reference labels can be referenced only in function definitions
1227	branch_into_statement_expr transfer of control into a statement expression is not allowed
1229	bad_statement_in_statement_expr this statement is not allowed inside of a statement expression
1230	class_def_in_statement_expr a non-POD class definition is not allowed inside of a statement expression
1231	destr_in_statement_expr destructible entities are not allowed inside of a statement expression
1232	dyn_local_static_in_statement_expr a dynamically-initialized local static variable is not allowed inside of a statement expression
1233	vla_in_statement_expr a variable-length array is not allowed inside of a statement expression
1234	statement_expr_in_default_arg a statement expression is not allowed inside of a default argument

1235	ptr_func_ptr_data_conv nonstandard conversion between pointer to function and pointer to data
1236	interface_cannot_have_virtual_base interface types cannot have virtual base classes
1237	interface_cannot_have_private_or_protected interface types cannot specify "private" or "protected"
1238	interface_must_derive_from_interface interface types can only derive from other interface types
1239	type_is_interface "type" is an interface type
1240	interface_cannot_have_typedef interface types cannot have typedef members
1241	interface_cannot_have_ctor_or_dtor interface types cannot have user-declared constructors or destructors
1242	interface_cannot_have_operator interface types cannot have user-declared member operators
1243	interface_cannot_be_local interface types cannot be declared in functions
1244	interface_cannot_be_template cannot declare interface templates
1245	interface_cannot_have_data_member interface types cannot have data members
1246	interface_cannot_have_friend interface types cannot contain friend declarations
1247	interface_cannot_have_nested_class interface types cannot have nested classes
1248	interface_cannot_be_nested_class interface types cannot be nested class types
1249	interface_cannot_have_member_templates interface types cannot have member templates

1250	interface_cannot_have_static_members interface types cannot have static member functions
1251	invalid_microsoft_pragma_operator this pragma cannot be used in a <code>__pragma</code> operator (a <code>#pragma</code> directive must be used)
1252	qualifier_must_be_base_class qualifier must be base class of "type"
1253	invalid_selective_overrider_declaration declaration must correspond to a pure virtual member function in the indicated base class
1254	integer_overflow_class_internal integer overflow in internal computation due to size or complexity of "type" The compiler displays this error if you are using multiple or virtual inheritance, and the offset from the beginning of the derived class <i>type</i> to a base class within <i>type</i> exceeds the 32 kilobytes. If you are using multiple inheritance, rearrange the inheritance order by putting smaller classes first. With the new ordering, the offset of larger classes is less likely to exceed this limit. If you are using virtual inheritance, make the derived class members smaller, because the compiler always places members of a derived class before virtual base classes. If you do not need your code to be backwards-compatible with existing code, you can remove this limit by passing the <code>--large_vtbl_offsets</code> option. For more information, see “Virtual Function Table Offset Size” in the chapter “Builder and Driver Options” in <i>MULTI: Building Applications</i> .
1255	integer_overflow_internal integer overflow in internal computation
1256	invalid_type_for_w64 <code>__w64</code> can only be specified on <code>int</code> , <code>long</code> , and pointer types
1257	ilp64_will_narrow potentially narrowing conversion when compiled in an environment where <code>int</code> , <code>long</code> , or pointer types are 64 bits wide
1258	value_of_pragma_pack_show current value of <code>pragma pack</code> is xxxx
1259	pragma_pack_show_args_ignored arguments for <code>pragma pack(show)</code> are ignored

1260	bad_alignment_specifier invalid alignment specifier value
1261	exp_int_literal expected an integer literal
1262	multiple_declspec_align earlier <code>__declspec(align(...))</code> ignored
1263	exp_ms_attr_enum_value expected an argument value for the "xxxx" attribute parameter
1264	invalid_ms_attr_enum_value invalid argument value for the "xxxx" attribute parameter
1265	exp_ms_attr_bool_value expected a boolean value for the "xxxx" attribute parameter
1266	positional_after_named a positional argument cannot follow a named argument in an attribute
1267	invalid_ms_attr_name attribute "xxxx" has no parameter named "xxxx"
1268	exp_ms_attr_arg_list expected an argument list for the "xxxx" attribute
1269	exp_comma_or_rbracket expected a ",", or "]"
1270	duplicate_ms_attr_arg attribute argument "xxxx" has already been given a value
1271	cannot_assign_to_ms_attr a value cannot be assigned to the "xxxx" attribute
1272	ptr_incomplete_throw a throw expression may not have pointer-to-incomplete type
1273	alignof_incomplete_type alignment-of operator applied to incomplete type
1274	invalid_use_of_standalone_ms_attr "xxxx" may only be used as a standalone attribute

1275	invalid_use_of_ms_attr "xxxx" attribute cannot be used here
1276	unrecognized_ms_attr unrecognized attribute "xxxx"
1277	ms_attr_not_allowed attributes are not allowed here
1278	invalid_ms_attr_uuid_value invalid argument value for the "xxxx" attribute parameter
1279	too_many_ms_attr_args too many attribute arguments
1280	conv_from_inaccessible_base_class conversion from inaccessible base class "type" is not allowed
1281	cl_export_template_requires_distinct_tmpl_sigs option "export" requires distinct template signatures
1282	mixed_string_concatenation string literals with different character kinds cannot be concatenated
1283	no_gnu_virtual_base_gap GNU layout bug not emulated because it places virtual base "entity" outside "entity" object boundaries
1284	gnu_virtual_base_gap virtual base "entity" placed outside "entity" object boundaries
1285	nonstd_qualifier_in_namespace_member_decl nonstandard qualified name in namespace member declaration
1286	declspec_align_reduction_ignored reduction in alignment ignored
1287	const_ignored const qualifier ignored
1289	invalid_asm_qualifiers invalid GNU asm qualifiers

1290	non_pod_passed_to_ellipsis non-POD class type passed through ellipsis The compiler issues this remark because it is expected that passing a struct to a variadic function is done by accident more often than it is done intentionally. For example, in many cases it is likely that passing either the address of the struct or one of its fields was intended instead. This remark may be issued on perfectly valid code.
1291	non_pod_va_arg a non-POD class type cannot be fetched by va_arg
1292	nonstd_fixed_point_suffix the 'u' or 'U' suffix must appear before the 'l' or 'L' suffix in a fixed-point literal
1293	cl_fixed_point_option_only_in_C option "fixed_point" can be used only when compiling C
1294	integer_may_not_fit_in_fixed_point_result integer operand may cause fixed-point overflow
1295	bad_fixed_point_value fixed-point constant is out of range
1296	inexact_fxp_conversion fixed-point value cannot be represented exactly
1297	c99_constant_in_unsigned_long_long_range constant is too large for long long; given unsigned long long type (nonstandard)
1298	bad_upc_shared_void_pointer_layout_qualifier layout qualifier cannot qualify pointer to shared void
1299	duplicate_threads_dim duplicate THREADS in multidimensional array type

Errors 1300 to 1399

1300	bad_strong_using_scope a strong using-directive may only appear in a namespace scope
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1301	probable_guiding_friend entity-kind "entity" declares a non-template function -- add <> to refer to a template instance
1302	operation_may_not_fit_in_fixed_point_result operation may cause fixed-point overflow
1303	expr_not_integral_or_enum_or_fixed_point expression must have integral, enum, or fixed-point type
1304	expr_not_integral_or_fixed_point expression must have integral or fixed-point type
1305	noreturn_function_does_return function declared with "noreturn" does return
1306	asm_name_conflict asm name ignored because it conflicts with a previous declaration
1307	duplicate_typedef_in_class class member typedef may not be redeclared
1308	taking_address_of_temporary taking the address of a temporary
1309	attribute_ignored_on_incomplete_class_decl attributes are ignored on a class declaration that is not also a definition
1310	implicit_fixed_point_to_floating_point_conversion fixed-point value implicitly converted to floating-point type
1311	no_classification_for_fixed_point_type fixed-point types have no classification
1312	fixed_template_parameter a template parameter may not have fixed-point type
1313	hex_fp_constant hexadecimal floating-point constants are not allowed
1314	cl_named_address_spaces_option_only_in_C option "named_address_spaces" can be used only when compiling C
1315	float_to_fixed_conversion floating-point value does not fit in required fixed-point type

1316	inexact_fixed_conversion value cannot be converted to fixed-point value exactly
1317	fixed_sign_change fixed-point conversion resulted in a change of sign
1318	integer_to_fixed_conversion integer value does not fit in required fixed-point type
1319	bad_fixed_operation_result fixed-point operation result is out of range
1320	multiple_named_address_spaces multiple named address spaces
1321	bad_storage_class_for_named_address_space_variable variable with automatic storage duration cannot be stored in a named address space
1322	type_with_named_address_space_not_allowed type cannot be qualified with named address space
1323	named_address_space_on_function_type function type cannot be qualified with named address space
1324	field_type_cannot_be_qualified_with_named_address_space field type cannot be qualified with named address space
1325	fixed_to_float_conversion fixed-point value does not fit in required floating-point type
1326	fixed_to_integer_conversion fixed-point value does not fit in required integer type
1327	fixed_to_fixed_conversion value does not fit in required fixed-point type
1328	cl_named_registers_option_only_in_C option "named_registers" can be used only when compiling C
1329	named_register_not_allowed a named-register storage class is not allowed here
1330	register_storage_class_conflict entity-kind "entity" (declared at line xxxx) redeclared with incompatible named-register storage class

1331	aliased_variable_cannot_have_register_storage_class named-register storage class cannot be specified for aliased variable
1332	register_in_use named-register storage specifier is already in use
1333	embedded_c_option_incompatible_with_individual_feature_options option "embedded_c" cannot be combined with options to control individual Embedded C features
1334	cl_invalid_edg_base_directory invalid EDG_BASE directory:
1335	cannot_open_predef_macro_file cannot open predefined macro file: "xxxx"
1336	bad_predef_macro_line invalid predefined macro entry at line xxxx: xxxx
1337	bad_macro_mode_name invalid macro mode name "xxxx"
1338	bad_predef_macro_redef incompatible redefinition of predefined macro "xxxx"
1339	missing_named_register_storage_class redeclaration of entity-kind "entity" (declared at line xxxx) is missing a named-register storage class
1340	register_too_small named register is too small for the type of the variable
1341	no_named_register_for_array arrays cannot be declared with named-register storage class
1342	enum_const_cast const_cast to enum type is nonstandard
1343	cl_embedded_c_option_only_in_C option "embedded_c" can be used only when compiling C
1344	named_address_space_not_allowed a named address space qualifier is not allowed here

1345	bad_initializer_for_array_with_unspecified_bound an empty initializer is invalid for an array with unspecified bound
1346	incomplete_class_return_type function returns incomplete class type "type"
1347	out_of_class_initializer_ignored entity-kind "entity" has already been initialized; the out-of-class initializer will be ignored
1348	local_variable_hidden declaration hides entity-kind "entity" (declared at line xxxx)
1349	named_address_space_for_parameter a parameter cannot be allocated in a named address space
1350	bad_float_or_fixed_suffix invalid suffix on fixed-point or floating-point constant
1351	register_in_address_space a register variable cannot be allocated in a named address space
1352	bad_stdc_fx_overflow_pragma_arg expected "SAT" or "DEFAULT"
1353	no_corresponding_member_delete entity-kind "entity" has no corresponding member operator delete (to be called if an exception is thrown during initialization of an allocated object)
1354	dll_thread_conflict a thread-local variable cannot be declared with "dllimport" or "dllexport"
1355	function_returning_named_address_space a function return type cannot be qualified with a named address space
1356	cannot_initialize_destructible_flexible_array an initializer cannot be specified for a flexible array member whose elements have a nontrivial destructor
1357	cannot_initialize_indirect_flexible_array an initializer cannot be specified for an indirect flexible array member

1358	cl_invalid_gnu_version invalid GNU version number:
1359	attribute_after_parenthesized_initializer variable attributes appearing after a parenthesized initializer are ignored
1360	gcc_use_of_cast_as_lvalue the result of this cast cannot be used as an lvalue
1361	unsigned_fixed_point_negation negation of an unsigned fixed-point value
1362	operator_not_allowed this operator is not allowed at this point; use parentheses
1363	nonconstant_flexible_array_member_init flexible array member initializer must be constant
1364	register_name_on_nonregister register names can only be used for register variables
1365	void_named_register named-register variables cannot have void type
1366	declspec_invalid __declspec modifiers not valid for this declaration
1367	parameter_with_link_scope_specifier parameters cannot have link scope specifiers
1368	multiple_link_scope_specifiers multiple link scope specifiers
1369	link_scope_requires_external_linkage link scope specifiers can only appear on functions and variables with external linkage
1370	link_scope_relaxation a redeclaration cannot weaken a link scope
1371	invalid_link_scope link scope specifier not allowed on this declaration
1372	nonstd_qualifier_in_global_scope_decl nonstandard qualified name in global scope declaration

1373	impl_narrowing_64_bit_int implicit conversion of a 64-bit integral type to a smaller integral type (potential portability problem)
1374	expl_narrowing_64_bit_int explicit conversion of a 64-bit integral type to a smaller integral type (potential portability problem)
1375	pointer_conversion_to_same_size_int conversion from pointer to same-sized integral type (potential portability problem)
1376	alias_loop alias creates cycle of aliased entities
1377	pcc_field_ambiguity field name resolves to more than one offset -- see "entity" (declared at line xxxx) and "entity" (declared at line xxxx)
1378	not_a_field_name "xxxx" is not a field name
1379	invalid_symbolic_asm_operand_name invalid symbolic operand name "xxxx"
1380	match_limit_for_symbolic_asm_operand a symbolic match constraint must refer to one of the first ten operands
1381	friend_specifier_ignored friend specifier is not allowed in a class definition; friend specifier is ignored
1382	cannot_use_thread_local_storage only static and extern variables can use thread-local storage
1383	multiple_thread_local_storage_specifiers multiple thread-local storage specifiers
1384	virtual_function_never_defined virtual entity-kind "entity" was not defined (and cannot be defined elsewhere because it is a member of an unnamed namespace)
1385	stray_carriage_return carriage return character in source line outside of comment or character/string literal

1386	expr_not_fixed_point expression must have fixed-point type
1387	invalid_access_specifier invalid use of access specifier is ignored
1388	ptr_conv_to_bool pointer converted to bool
1389	ptr_to_member_conv_to_bool pointer-to-member converted to bool
1390	storage_specifier_ignored storage specifier ignored
1391	dll_interface_ignored_on_class_template dllexport and dllimport are ignored on class templates
1392	base_class_has_different_dll_interface base class dllexport/dllimport specification differs from that of the derived class
1393	redeclaration_adds_dll_interface redeclaration cannot add dllexport/dllimport to "entity" (declared at line xxxx)
1394	dll_interface_conflict_dllexport_assumed dllexport/dllimport conflict with "entity" (declared at line xxxx); dllexport assumed
1395	dllimport_defined cannot define dllimport entity
1396	dll_interface_requires_external_linkage dllexport/dllimport requires external linkage
1397	class_and_member_have_dll_interface a member of a class declared with dllexport/dllimport cannot itself be declared with such a specifier
1398	field_without_dll_interface field of class type without a DLL interface used in a class with a DLL interface
1399	microsoft_parenthesized_member parenthesized member declaration is nonstandard

Errors 1400 to 1499

1400	white_space_inside_splice white space between backslash and newline ignored for GNU compatibility -- may cause unintentional line continuation In most C dialects, the compiler does not parse backslash (\) as a line continuation character if it is followed by a whitespace. In the GNU C dialect, the compiler parses backslash as a line continuation character whether or not it is followed by a whitespace. In versions of the MULTI compiler earlier than 5.2, the GNU C and C++ dialects behaved the same way as other dialects. This diagnostic indicates that your code has a line that contains a backslash followed by a whitespace, and therefore may contain an unintentional line continuation. The following example shows one of these cases (the space is indicated by an underscore, because it does not display in print): <pre>#include <stdio.h> int main(void) { int i = 42; // use space after backslash, as in C:_ i = 0; // ignored in GNU if (i != 0) { printf("i = %d, should be 0\n", i); } }</pre>
1401	dll_interface_conflict_none_assumed dllexport/dllimport conflict with "entity" (declared at line xxxx); dllimport/dllexport dropped
1402	bad_nonstd_anonymous_union_field invalid member for anonymous member class -- class "type" has a disallowed member function
1403	nonstd_reinterpret_cast nonstandard reinterpret_cast
1404	positional_format_specifier_zero positional format specifier cannot be zero
1405	nonlocal_vla_not_allowed a local class cannot reference a variable-length array type from an enclosing function
1406	class_and_inherited_member_instance_have_dll_interface member entity-kind "entity" (declared at line xxxx) already has an explicit dllexport/dllimport specifier

1407	vla_in_return_type a variable-length array is not allowed in a function return type
1408	ptr_to_member_of_vla_type variable-length array type is not allowed in pointer to member of type "type"
1409	statement_expr_with_vla_type the result of a statement expression cannot have a type involving a variable-length array
1410	trigraph_ignored support for trigraphs is disabled
1411	attribute_requires_external_linkage the "xxxx" attribute can only appear on functions and variables with external linkage
1412	cl_strict_mode_incompatible_with_ignore_std strict mode is incompatible with treating namespace std as an alias for the global namespace
1413	if_exists_not_allowed use of __if_exists is not supported in this context
1414	if_exists_not_closed __if_exists block not closed in the same scope in which it was opened
1415	bad_init_for_thread_local thread-local variable cannot be dynamically initialized
1416	unaligned_qualifier_dropped conversion drops "__unaligned" qualifier
1417	insufficient_enum_range some enumerator values cannot be represented by the integral type underlying the enum type
1418	friend_class_template_default_arg_not_allowed default argument is not allowed on a friend class template declaration
1419	multi_char_literal value of multicharacter character literal is implementation-defined

1420	exp_class_type expected a class, struct, or union type
1421	offsetof_nonfield second operand of offsetof must be a field
1422	offsetof_bit_field second operand of offsetof may not be a bit field
1423	offsetof_virtual_base_member cannot apply offsetof to a member of a virtual base
1424	offset_in_non_POD_nonstandard offsetof applied to non-POD types is nonstandard
1425	default_arg_on_member_friend default arguments are not allowed on a friend declaration of a member function
1426	default_arg_requires_friend_to_be_definition default arguments are not allowed on friend declarations that are not definitions
1427	redeclaration_of_friend_with_default_args redeclaration of entity-kind "entity" (declared at line xxxx) previously declared as a friend with default arguments is not allowed
1428	bad_qualifier_for_nested_class_decl invalid qualifier for "type" (a derived class is not allowed here)
1429	bad_qualifier_for_delayed_class_definition invalid qualifier for definition of class "type"
1430	no_prior_push_macro no prior push_macro for "xxxx"
1431	wide_string_not_allowed wide string literal not allowed
1433	feature_requires_c "xxxx" is only allowed in C
1434	microsoft_ptr_width_must_follow_star __ptr32 and __ptr64 must follow a "*"

1435	microsoft_ptr_width_conflict __ptr32 and __ptr64 cannot both apply
1436	name_must_be_prototype_instantiation template argument list of "xxxx" must match the parameter list
1437	incomplete_class_type an incomplete class type is not allowed
1438	complex_integral_type complex integral types are not supported
1439	real_and_imag_require_complex_argument __real and __imag can only be applied to complex values
1440	real_and_imag_applied_to_real_value __real/__imag applied to real value
1441	deprecated_entity_with_custom_message entity-kind "entity" (declared at line xxxx) was declared "deprecated ("xxxx") "
1442	redefinition invalid redefinition of entity-kind "entity" (declared at line xxxx)
1443	dll_interface_in_unnamed_namespace dllimport/dllexport applied to a member of an unnamed namespace
1444	thiscall_requires_nonstatic_member __thiscall can only appear on nonstatic member function declarations
1445	vararg_thiscall __thiscall not allowed on function with ellipsis parameter
1446	specialization_of_referenced_entity explicit specialization of entity-kind "entity" must precede its first use
1447	sealed_base_class a sealed class type cannot be used as a base class
1448	duplicate_class_modifier duplicate class modifier

1449	function_modifiers_abstract_and_sealed a member function cannot have both the "abstract" and "sealed" modifiers
1450	pure_specifier_on_sealed_member a sealed member cannot be pure virtual
1451	function_modifier_requires_virtual_function nonvirtual function cannot be declared with "abstract" or "sealed" modifier
1452	override_member_does_not_override member function declared with "override" modifier does not override a base class member
1453	override_of_sealed_function cannot override sealed entity-kind "entity" (declared at line xxxx)
1454	type_is_declared_abstract entity-kind "entity" (declared at line xxxx) was declared with the class modifier "abstract"
1455	cl_uliterals_option_only_in_C option "--uliterals" can be used only when compiling C
1456	parameter_attribute_invalid attribute "xxxx" not allowed on parameter declarations
1457	enum_base_type_must_be_integral underlying type of enum type must be an integral type other than bool
1458	enum_base_type_too_limited some enumerator constants cannot be represented by "type"
1459	feature_not_allowed_in_current_mode "xxxx" not allowed in current mode
1460	cl_type_traits_helpers_option_only_in_cplusplus option "--type_traits_helpers" can be used only when compiling C++
1461	gnu_sentinel_attribute_requires_ellipsis attribute "sentinel" requires an ellipsis parameter

1462	invalid_gnu_sentinel_argument argument must be a constant null pointer value
1463	no_gnu_sentinel_argument insufficient number of arguments for sentinel value
1464	gnu_sentinel_must_be_ellipsis_argument sentinel argument must correspond to an ellipsis parameter
1465	implementation_key_outside_mapping_region __declspec(implementation_key(...)) can appear only between #pragma start_map_region and #pragma stop_map_region
1466	start_map_region_ignored #pragma start_map_region already active: pragma ignored
1467	stop_map_region_ignored no #pragma start_map_region is currently active: pragma ignored
1468	var_used_as_destructor entity-kind "entity" cannot be used to name a destructor (a type name is required)
1469	empty_wide_character nonstandard empty wide character literal treated as L'\0'
1470	invalid_typename_specifier "typename" may not be specified here
1471	no_default_delete_in_virtual_dtor a non-placement operator delete must be visible in a class with a virtual destructor
1472	name_linkage_mismatch_for_variable name linkage conflicts with previous declaration of entity-kind "entity" (declared at line xxxx)
1473	subscript_must_be_constant subscript must be constant
1474	register_mapped_variable_cannot_have_initializer a variable with static storage duration allocated in a specific register cannot be declared with an initializer
1475	register_mapped_variable_must_be_POD a variable allocated in a specific register must have POD type

1476	predef_macro_redefined predefined meaning of "entity" discarded
1477	attribute_requires_internal_linkage the "xxxx" attribute can only appear on functions and variables with internal linkage
1478	designator_for_non_POD designator may not specify a non-POD subobject
1479	enum_qualifier_nonstd enum qualified name is nonstandard
1480	nonstandard_anonymous_union_qualifier anonymous union qualifier is nonstandard
1481	anonymous_union_qualifier_ignored anonymous union qualifier is ignored
1482	declspec_missing_declarator __declspec ignored (no variable or function declared)
1483	struct_declspec_ignored_in_C_mode __declspec(xxxx) ignored (it has no meaning for a C struct)
1484	nonstandard_secondary_decl_specifiers specifiers after comma between declarations are nonstandard
1485	secondary_specifier_ignored nonstandard specifier ignored
1486	enum_attribute_ignored attributes are ignored on an enum declaration that is not also a definition
1487	reference_declared_mutable declaring a reference with "mutable" is nonstandard
1488	array_condition_always_true a condition declaration for an array is always true
1489	static_assert static assertion failed with "xxxx"

1490	gnu_visibility_conflict visibility attribute ignored because it conflicts with a previous declaration
1491	member_cannot_have_internal_linkage a member function cannot have internal linkage
1492	builtin_function_hidden declaration hides built-in entity-kind "entity"
1493	builtin_function_overloaded declaration overloads built-in entity-kind "entity"
1494	cl_list_macros_incompatible_with_multiple_trans_units the option to list macro definitions may not be specified when compiling more than one translation unit
1495	lparen_after_function unexpected parenthesis after declaration of entity-kind "entity" (malformed parameter list or invalid initializer?)
1496	nonstandard_parenthesized_string_initializer parentheses around a string initializer are nonstandard
1497	auto_variable_in_own_initializer a variable declared with an auto type specifier cannot appear in its own initializer
1498	cannot_deduce_auto_type cannot deduce "auto" type
1499	auto_brace_initialization_not_allowed initialization with "{...}" is not allowed for "auto" type

Errors 1500 to 1599

1501	bad_align_alignment invalid align value
1502	local_pragma_align effect of this "#pragma align" directive is local to entity-kind "entity"

1503	nested_pragma_areas pragmas which specify data areas cannot be nested
1504	misplaced_asm_pragma "#pragma asm/endasm" cannot be placed xxxx
1505	ghs_interrupt_and_nonfunction interrupt specifier allowed on function declarations only
1506	ghs_interrupt_and_nonvoid_return interrupt function must return void
1507	ghs_interrupt_and_has_parameters interrupt function may not have parameters
1508	ghs_interrupt_not_supported interrupt functions not supported in this compiler
1509	incompatible_interrupt_specifier_on_specific_decl __interrupt specification is incompatible with previous "entity" (declared at line xxxx)
1510	ghs_pragma_config_unimplement This pragma is not implemented for this configuration The compiler displays this error if you use a #pragma directive that is not implemented for your processor or target operating system, or if you set an option that disables the directive. For more information, see the documentation for the #pragma directive reported in the error.
1511	bad_alignvar_alignment invalid alignvar value
1512	bad_section_pragma incorrect section #pragma: xxxx
1513	unknown_ghs_pragma GHS #pragma with incorrect keyword "xxxx"
1514	invalid_ghs_pragma incorrect GHS #pragma: xxxx
1515	unmatched_ghs_sda_pragma the end data section pragma does not match the start data section pragma

1517	invalid_pp_directive_in_asm_block this preprocessing directive is not permitted within a #pragma asm/endasm block
1518	ghs_safe_ansi_alias_pointer_function a questionable cast from type "type" to type "type" causes ANSI aliasing rules to be turned off for this function This warning indicates that the compiler has detected that two entities of incompatible type might alias each other at function scope, and therefore the compiler will not perform any optimizations whose correctness depends on aliasing information when compiling the current function. This warning is issued only when those optimizations have been enabled. When compiling without optimizations, remark 1798 is issued instead. To disable ANSI aliasing rules and suppress this warning, pass the -no_ansi_alias option.
1519	ghs_safe_ansi_alias_pointer_file a questionable cast from type "type" to type "type" -- please recompile with ANSI aliasing turned off This error indicates that the compiler has detected that two entities of incompatible type might alias each other at file scope, and therefore the compiler cannot perform any optimizations whose correctness depends on aliasing information. This error is issued only when those optimizations have been enabled. When compiling without optimizations, remark 1798 is issued instead. To disable ANSI aliasing rules and suppress this error, pass the -no_ansi_alias option.
1520	unimplemented_gnu_extension unsupported GNU language extension: xxxx
1521	gnu_extension_recognized use -gnu for full GNU support
1522	global_reg_and_initializer global register variable cannot have an initializer
1523	asmsym_macro_commented_out This macro definition will be commented-out in asmsym output files since it may have adverse effects
1524	asmsym_internal_macro_syntax_error Incorrect usage of __ASMSYM_INTERNAL()

1527	no_match_for_intvect_pragma The name specified in the 'intvect' must be a declared interrupt routine
1528	field_not_yet_laid_out An asmsym region ended before the xxxx definition containing field "xxxx" was complete
1529	asm_not_allowed_with_bin_codegen asm statement incompatible with binary code generation. Try command line option -noobj or builder menu File Options->Advanced->Compilation = Assembly
1530	addr_of_builtin this builtin function may not have its address taken
1531	builtin_function_type Builtin function xxxx is not xxxx
1532	decl_overloaded_builtin overloaded builtin function may not be declared
1533	defining_builtin defining builtin function; may be called only via pointer to function
1534	expr_not_constant_or_vector expression must be a vector type or have a constant value
1535	implicit_builtin builtin function may not be implicitly declared
1536	obsolete_feature use of obsolete feature: xxxx
1537	too_few_initializer_values too few initializer values
1538	type_must_be_compat_with_builtin type must be compatible with builtin function
1539	vector_arg_without_prototype vector argument requires a prototype
1540	vector_not_first vector type specifier is not first

1541	vector_type_required operand of <code>vec_step</code> must be a vector type
1542	no_floating_point_types floating point types have been disabled
1543	no_floating_point_const floating point constants have been disabled
1544	pragma_information_conflict incompatibility associated with redeclaration of entity-kind "entity": xxxx
1545	address_of_packed_struct_member address taken of a packed structure member with insufficient alignment
1546	asm_non_portable asm constructs are non-portable
1547	call_to_nonprototyped_func call is made to a non-prototyped function GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1550	auto_type_in_array_type "auto" type cannot appear in top-level array type
1551	auto_type_in_function_type "auto" type cannot appear in top-level function type
1552	invalid_member_constant_type a member of type "type" cannot have an in-class initializer
1553	member_constant_not_const a member with an in-class initializer must be <code>const</code>
1554	auto_type_requires_initializer cannot deduce "auto" type (initializer required)
1555	inconsistent_deduction_of_auto "auto" type is "type" for this entity, but was previously implied to be "type"
1556	bad_constructor_decl invalid constructor declaration

1557	bad_type_qualifier invalid use of a type qualifier
1558	abstract_or_sealed_on_union a union cannot be abstract or sealed
1559	auto_not_allowed_here "auto" is not allowed here
1560	unfinished_base_class definition of base class type not completed yet
1561	static_extern_template "extern template" cannot refer to a specialization of static entity-kind "entity" (declared at line xxxx)
1562	extern_template_follows_instantiation "extern template" cannot follow explicit instantiation of entity-kind "entity"
1563	bad_declspec_restrict_return __declspec(restrict) requires a function returning a pointer type
1564	cl_report_gnu_extensions_requires_gnu_mode the "report_gnu_extensions" option is only valid in GNU C and GNU C++ modes
1565	vla_is_nonstandard variable-length array types are nonstandard
1566	designator_is_nonstandard designators are nonstandard
1567	extended_designator_is_gnu_extension this designator syntax is a GNU extension
1568	compound_literal_is_nonstandard compound literals are nonstandard
1569	statement_expression_is_gnu_extension statement expressions are a GNU extension
1570	asm_name_after_definition asm name ignored for previously defined entity

1571	attribute_is_gnu_extension attributes are a GNU extension
1572	asm_operand_spec_is_gnu_extension extended asm syntax is a GNU feature
1573	volatile_asm_is_gnu_extension volatile asm declarations are a GNU extension
1574	asm_name_is_gnu_extension asm name specifiers are a GNU extension
1575	gnu_restrict_is_nonstandard the "__restrict" qualifier is nonstandard
1576	typeof_is_gnu_extension "typeof" is a GNU extension
1577	typedef_modification_is_nonstandard modifying the size or signedness of a typedef is nonstandard
1578	zero_length_array_is_gnu_extension zero-length arrays are a GNU extension
1579	flexible_array_is_nonstandard flexible array members are nonstandard
1580	nonnull_on_nonpointer attribute "nonnull" references nonpointer parameter
1581	nonnull_parameter_number_too_large argument for attribute "nonnull" is larger than number of parameters
1582	no_pointer_parameters no parameter has pointer type
1583	null_argument_for_nonnull_parameter null argument provided for parameter marked with attribute "nonnull" This warning is issued in connection with the nonnull attribute.
1584	access_prevents_dtor_generation the destructor for "type" has been suppressed because the destructor for "type" is inaccessible

1585	suppressed_dtor_needed the suppressed destructor for "type" is needed
1586	inline_gnu_noinline_conflict routine is both "inline" and "noinline" ("noinline" assumed)
1587	invalid_cleanup_routine invalid cleanup routine
1588	attribute_cleanup_requires_automatic_storage attribute "cleanup" requires automatic storage duration
1589	attribute_cleanup_for_parameter attribute "cleanup" does not apply to parameters
1590	bad_type_for_cleanup_routine cleanup routine has invalid type
1591	nonstandard_conversion_for_cleanup call of cleanup routine requires suspect conversion
1592	microsoft_ptr_signedness_must_follow_star __sptr and __uptr must follow a "*"
1593	microsoft_ptr_signedness_conflict __sptr and __uptr cannot both be specified
1594	microsoft_ptr_sign_extension widening pointer conversion from "type" to "type" extends sign bit
1595	microsoft_ptr_signedness_on_ptr_to_member __sptr and __uptr don't apply to pointer-to-member types
1596	const_mbr_suppresses_copy_asgn_decl the declaration of the copy assignment operator for "type" has been suppressed because entity-kind "entity" is const
1597	ref_mbr_suppresses_copy_asgn_decl the declaration of the copy assignment operator for "type" has been suppressed because entity-kind "entity" has reference type
1598	subobj_copy_asgn_decl_suppressed the declaration of the copy assignment operator for "type" has been suppressed because that of "type" was suppressed

1599	ambig_suppresses_copy_asgn_decl the declaration of the copy assignment operator for "type" has been suppressed because that of "type" is ambiguous
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Errors 1600 to 1699

1600	access_suppresses_copy_asgn_decl the declaration of the copy assignment operator for "type" has been suppressed because that of "type" is inaccessible
1601	subobj_copy_ctor_decl_suppressed the declaration of the copy constructor for "type" has been suppressed because that of "type" was suppressed
1602	ambig_suppresses_copy_ctor_decl the declaration of the copy constructor for "type" has been suppressed because that of "type" is ambiguous
1603	access_suppresses_copy_ctor_decl the declaration of the copy constructor for "type" has been suppressed because that of "type" is inaccessible
1604	inaccessible_dtor_not_invoked the destructor for "type" will not be called because it is inaccessible and the destructor for "type" was suppressed
1605	file_ends_with_unterminated_type_definition definition at end of file not followed by a semicolon or a declarator
1606	bad_type_for_gnu_sync_function first argument must be a pointer to integer or enumeration type
1607	invalid_gnu_sync_size synchronized operations are valid only on objects of size 1, 2, 4, or 8
1608	extra_arguments_ignored extra arguments ignored
1609	equals_assumed_in_cmd_line_macro_def '=' assumed following macro name "xxxx" in command-line definition

1610	white_space_required_after_macro_name white space is required between the macro name "xxxx" and its replacement text
1611	call_result_should_be_used result of call is not used
1612	warn_unused_result_with_void_return attribute is ignored for void return type
1613	attr_requires_ptr_to_func_type attribute requires pointer-to-function type
1614	dll_interface_ignored_on_qualified_declaration dllimport/dllexport is ignored on redeclaration using a qualified name
1615	leading_character_ignored_in_char_literal too many characters in character literal -- extra leading characters ignored
1616	first_inline_after_definition entity-kind "entity" cannot be declared inline after its definition at line xxxx
1617	statement_expression_in_dependent_typeof a statement expression is not allowed in a template-dependent typeof specifier
1618	statement_expression_in_decltype a statement expression is not allowed in a decltype specifier
1619	duplicate_function_modifier duplicate function modifier
1620	no_char16_t_representation invalid character for char16_t literal
1621	lprefix_and_uliteral __LPREFIX cannot be applied to char16_t or char32_t literals
1622	cl_unrecognized_calling_convention unrecognized calling convention xxxx, must be one of:
1632	assume_expression_discarded __assume expression with side effects discarded

1633	gnu_attributes_ignored attributes ignored here
1634	useless_type_qualifiers_in_type_name type qualifiers are meaningless here
1642	no_floating_point_double_type double precision floating point type has been disabled
1643	no_floating_point_double_const double precision floating point constants have been disabled
1657	ghs_unable_to_create_pch unable to create precompiled header file: xxxx
1658	ghs_pch_source_dir_mismatch directory of source file not the same as when precompiled header file "xxxx" was created
1695	ghs_trigraph_not_allowed trigraphs not allowed
1696	ghs_register_not_allowed register storage class not allowed
1697	ghs_va_list_not_allowed variable argument list not allowed
1698	ghs_basic_type_not_allowed basic types may not be used -- use typedef
1699	ghs_unspecified_char_not_allowed char without signed or unsigned specifier not allowed

Errors 1700 to 1799

1700	ghs_inline_not_in_cpp "xxxx" is not allowed in C++ -- use "inline"
1701	ghs_inline_not_allowed "xxxx" is not allowed

1702	ghs_uminus_on_unsigned_expr_not_allowed unary minus may not be applied to an unsigned expression GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1703	ghs_ptr_cast_not_allowed cast from type "type" to type "type" not allowed
1704	ghs_exact_float_test_not_allowed floating point variable may not be tested for exact equality or inequality GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1705	ghs_goto_not_allowed the goto statement is not allowed
1706	ghs_continue_not_allowed the continue statement is not allowed
1707	ghs_break_only_in_switch the break statement may only be used to terminate the case of a switch statement
1708	ghs_label_not_allowed label not allowed
1709	ghs_compound_statement_required dependent statement in conditional or loop construct must be enclosed in braces
1710	ghs_else_required final else clause required for if, else if construct
1711	ghs_no_fall_thru_on_case previous non-empty case clause must be terminated with a break statement GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1712	ghs_default_required_for_switch switch statement must contain a default case GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

1713	ghs_case_required_for_switch switch statement must contain at least one case GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1714	ghs_callmode_and_nonfunction call mode specifier allowed on function declarations only
1715	ghs_undef_not_allowed #undef may not be used
1716	ghs_multiple_hash_ops_not_allowed only one # or ## operator per macro allowed
1717	ghs_bitfield_signedness_is_unspecified bit-fields should be explicitly "signed" or "unsigned"
1718	ghs_octal_constant_not_allowed octal constant (other than zero) not allowed
1719	ghs_comma_outside_for_not_allowed comma operator only allowed in the control expression of a for loop
1720	ghs_wide_string_not_allowed wide string literal not allowed
1721	ghs_id_shadow_not_allowed identifier shadows entity-kind "entity" (declared at line xxxx) GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1722	ghs_typedef_reuse_not_allowed identifier redefines typedef entity-kind "entity" (declared at line xxxx)
1723	ghs_separate_name_spaces_not_allowed identifier conflicts with entity-kind "entity" (declared at line xxxx) in separate namespace
1724	ghs_short_circuit_side_effects_not_allowed right hand operand of && or operator may not contain side effects

1725	ghs_sizeof_side_effects_not_allowed side effects not allowed in operand of sizeof operator GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1726	ghs_enumeration_init_first_or_all_only only the first or all members of an enumeration may be explicitly initialized GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1727	ghs_bad_ids_for_func_params identifiers must be given for all of the declared parameters
1728	ghs_empty_param_list_not_allowed function with no parameters must be declared with parameter type void GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1729	ghs_primary_exprs_in_logical_ops_required operands of logical && or must be primary expressions
1730	ghs_bitwise_op_on_signed_ints_not_allowed bitwise operation may not be performed on signed integer types
1731	ghs_block_scope_func_decls_not_allowed function must be declared at file scope GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1732	ghs_define_or_undef_in_block_not_allowed #define and #undef may not be used within a block GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1733	ghs_boolean_switch_not_allowed switch expression may not represent a boolean value GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1734	ghs_multiple_function_exits_not_allowed function must have a single exit point

1735	ghs_unsigned_const_wrap_around_not_allowed constant unsigned integer expression may not wrap around
1736	ghs_initializer_braces_required initializer must use braces to match structure of object GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1737	ghs_op_precedence_dependence_not_allowed expression may not depend on operator precedence rules
1738	ghs_assign_op_in_boolean_expr_not_allowed assignment operator not allowed in boolean operation
1739	ghs_lossy_implicit_conversion_not_allowed implicit conversion may result in loss of information when converting from "type" to "type"
1740	ghs_redundant_explicit_cast_not_allowed redundant explicit cast not allowed
1741	ghs_deep_pointer_indirection_not_allowed no more than 2 levels of pointer indirection may be used
1742	ghs_anonymous_member_not_allowed all members of structure or union must be named
1743	ghs_macro_parens_required definition and each parameter of function-like macro must be enclosed in parentheses
1744	ghs_long_long the type "long long" is not supported for this configuration
1745	ghs_identical_param_ids_required parameter identifiers in declaration different from prototype entity-kind "entity" (declared at line xxxx)
1746	ghs_isolated_null_statements_required null statement must occur on line by itself
1747	ghs_non_std_file_name_chars_not_allowed non-standard character in header file name not allowed GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

1748	ghs_include_after_non_pp_token_not_allowed #include statements may only be preceded by preprocessor directives and comments
1749	ghs_dedicated_asm_procs_required in-line assembly must be embedded in dedicated assembly procedures only
1750	ghs_float_loop_counter_not_allowed floating point expression not allowed in condition expression of for loop GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1751	ghs_mixed_precision_arithmetic_not_allowed mixed precision arithmetic must use explicit cast
1752	ghs_ptr_arith_not_allowed pointer arithmetic not allowed
1753	fixedpt_to_fixedpt_conversion fixed-point value does not fit in required fixed-point type
1754	fixedpt_to_float_conversion fixed-point value does not fit in required floating-point type
1755	fixedpt_to_integer_conversion fixed-point value does not fit in required integer type
1756	float_to_fixedpt_conversion floating-point value does not fit in required fixed-point type
1757	integer_to_fixedpt_conversion integer value does not fit in required fixed-point type
1758	unsupported_fixedpt fixed-point type not supported by this target
1759	bad_fixedpt_value fixed-point value out of range
1760	sat_not_first __sat type specifier is not first
1761	missing_vector_underlying_type __vector requires an underlying element type

1762	bad_vector_underlying_type vector of "type" not allowed
1763	bad_vector_dimension explicit dimension of vector of "type" is too large
1764	vector_subscript_out_of_range vector subscript out of range
1766	bad_pragma_placement badly placed #pragma: xxxx
1767	ghs_call_result_cast_to_void result of call is not used (cast to void)
1768	ghs_unattributed_call_result_should_still_be_used result of call is not used
1770	incorrect_pragma incorrect #pragma: xxxx
1771	ghs_code_commented_out possible occurrence of 'commented out' code
1772	ghs_identifier_truncated identifier too long - truncated to xxxx significant characters
1773	noinline_not_allowed "__noinline" is not allowed
1774	function_call_needs_parens function address expression - function call without arguments needs "()" as the parameter list
1775	numeric_constant_needs_suffix numeric constant should be suffixed to indicate type
1776	macro_not_a_literal_specifier_or_function macro definition can only be used for symbolic constants, function-like macros, or type and storage class qualifiers
1777	non_constant_pointer_to_function detected usage of a non-constant pointer to function
1778	function_pointer_prototype_mismatch function pointer prototypes must be identical

1779	be_addr_of_pid_is_init_val address of a position independent object cannot be an initial value; detected inside the routine at the given position
1780	address_of_local_used_outside_scope address of an automatic variable potentially used out of scope GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1781	cl_error_in_config --config option error:
1782	be_safe_ansi_alias_pointer a questionable cast has been found in a routine at the given position - the ANSI aliasing rules are turned off for that routine
1786	argument_not_u5bit_constant argument must be an integer literal in range [0,64)
1787	argument_not_s5bit_constant argument must be an integer literal in range [-32,32)
1788	intrinsic_call_no_decl call to intrinsic function "xxxx" without a prior declaration
1789	bit_field_type_too_large bit-field base type must not be larger than 32 bits
1790	be_loop_cannot_be_vectorized failed to vectorize the loop: xxxx
1791	call_to_nonprototyped_vararg_func call is made to a non-prototyped function, known to use variable arguments: xxxx GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1792	bad_fixedpt_operation_result fixed-point result out of range
1793	bad_dsp_c_operator operator not allowed on type "type"

1794	bad_target_for_extension extension cannot be used with this target configuration
1795	double_under_in_name C++ symbols with the sequence `__' in their names might not be debuggable
1796	section_incompatible use of section "xxxx" not compatible with its other uses -- explicit section assignment ignored
1797	ghs_single_extern_def external identifier shall have exactly one definition GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1798	ghs_safe_ansi_alias_pointer_warn_but_dont_degrade_optimizations a questionable cast from type "type" to type "type" may indicate illegal references See diagnostics 1518 and 1519.
1799	noarg_c_function_needs_void .function declared without a prototype - consider `void' for the parameter list

Errors 1800 to 1899

1800	nonprototype_function_defined function defined without a prototype
1801	bad_weak_string unexpected character in weak identifier sequence
1803	builtin_va_list_not_supported builtin va_list operators not supported
1804	questionable_conversion implicit conversion from type "type" to type "type"
1805	pack_and_pad_nondefault cannot have `#pragma pack' and `#pragma pad' active at the same time

1806	pragma_align_lowers_alignment `#pragma align' lowers the alignment below alignment specified by type
1807	address_of_register taking the address of a register is not allowed
1808	calling_convention_attribute_not_allowed calling convention specification not allowed here
1809	conflicting_calling_convention conflicting calling convention attribute
1810	no_packed_floating_point_types packed floating point types not allowed
1811	bytereversed_int_or_short_only byte ordering qualifiers only apply to pointer and integral types larger than char, not "type"
1812	ghs_cast_away_string_literal_const implicit const-cast of string literal
1813	argument_not_required_const_range argument must be an integer literal in range xxxx
1814	argument_truncation_range argument will be truncated to range xxxx
1815	dwarf1_multiple_text_sections Dwarf 1 cannot represent functions that are defined in distinct .text sections in the same compile unit
1816	ghs_extern_decl_not_in_header external declaration should be in header file
1817	ghs_linkonce_and_nonfunction linkonce specifier allowed on function declarations only
1818	ghs_fp_divide_by_zero floating point division by zero
1819	ghs_bitfield_used_within_union bit-fields within union probably used to access sub-parts of larger data type

1820	ghs_floating_used_within_union floating point types within union depend on underlying bit representation
1821	ghs_unreachable_code_in_switch_not_allowed unreachable code at top level of switch statement not allowed
1822	ghs_multicharacter_literal_used value of multicharacter literal is implementation-defined
1823	ghs_multibyte_char_used multibyte character detected
1824	ghs_array_size_required incomplete array type with external linkage not allowed for entity-kind "entity" (declared at line xxxx)
1825	ghs_comma_not_allowed comma operator not allowed
1826	ghs_if_without_compound_statement compound statement required for if construct
1827	ghs_union_not_allowed union not allowed
1828	ghs_static_nonprototype_function_defined static function defined without a prototype
1829	ghs_macro_parameter_parens_required parameter of function-like macro must be enclosed in parentheses
1830	ghs_hash_ops_not_allowed # or ## operator not allowed
1831	ghs_no_defined_during_preproc_expansion token "defined" may not be generated during #if or #elif expansion
1832	ghs_func_ptr_cast_not_allowed conversion from type "type" to type "type" not allowed
1833	ghs_obj_ptr_cast_not_allowed conversion from type "type" to type "type" not allowed

1834	ghs_ptr_int_cast_not_allowed cast from type "type" to type "type" not allowed
1835	ghs_ptr_ptr_cast_not_allowed cast from type "type" to type "type" not allowed
1836	ghs_qual_removing_ptr_cast_not_allowed cast from type "type" to type "type" that removes underlying const or volatile qualifier not allowed
1837	ghs_default_clause_must_be_final_clause default clause must be final clause of switch statement GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1838	ghs_switch_label_must_be_at_top_level case or default label not scoped in top level compound statement of switch statement GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1839	ghs_macro_mixes_asm_and_c entity-kind "entity" (declared at line xxxx) mixes in-line assembly language and C/C++
1840	ghs_identifier_reuse_not_allowed identifier reused from declaration of entity-kind "entity" (declared at line xxxx)
1841	ghs_typedef_must_be_unique typedef name conflict between entity-kind "entity" (declared at line xxxx) and identifier
1842	ghs_tag_must_be_unique tag name conflict between entity-kind "entity" (declared at line xxxx) and identifier
1843	ghs_static_storage_id_reuse_not_allowed static storage name conflict between entity-kind "entity" (declared at line xxxx) and identifier

1844	ghs_identical_param_and_return_types_required parameter or return type in declaration different from prototype entity-kind "entity" (declared at line xxxx) GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1845	ghs_too_many_break_statements multiple break statements per iteration statement not allowed
1846	ghs_definition_in_header_file object or function defined in header file
1847	ghs_complex_integer_cast_not_allowed cast of complex integer expression with underlying type "type" to non-integer type "type" not allowed
1848	ghs_complex_float_cast_not_allowed cast of complex floating point expression from type "type" to type "type" not allowed
1849	ghs_bitwise_expr_needs_cast bitwise ~ or << expression must be immediately cast back to underlying type, "type"
1850	ghs_plain_char_for_char_values_only plain char type can only be used for storage of character values
1851	ghs_non_plain_char_for_numeric_values_only signed or unsigned char type can only be used for storage of numeric values
1852	ghs_plain_char_operand_not_allowed only assignment and equality operators may be used on plain char operand
1853	ghs_boolean_expr_required effectively boolean expression required
1854	ghs_boolean_expr_not_allowed effectively boolean expression not allowed
1855	ghs_explicit_test_required explicit test against zero required
1856	ghs_inc_or_dec_result_used result of increment or decrement expression may not be used

1857	ghs_boolean_op_is_invariant result of boolean operation is invariant
1858	ghs_subscript_on_array_type_only subscript operator may only be applied to objects declared as an array type
1859	ghs_macro_misuse_not_allowed macro definition can only be used for a braced initializer, constant, parenthesized expression, type qualifier, storage class specifier, or do-while-zero construct
1860	ghs_macros_must_balance_brackets macro definition must balance all braces, parentheses, and brackets
1861	ghs_reserved_name_redef_or_undef reserved identifier, macro, or function name "xxxx" cannot be defined, redefined, or undefined
1862	ghs_function_like_macro_not_allowed function-like macro not allowed -- use function instead
1863	ghs_non_integer_implicit_conversion_not_allowed implicit conversion from underlying type, "type", to non-integer underlying type, "type", not allowed
1864	ghs_narrowing_implicit_conversion_not_allowed implicit conversion from underlying type, "type", to narrower underlying type, "type", not allowed
1865	ghs_same_width_implicit_conversion_not_allowed implicit conversion from underlying type, "type", to same width underlying type, "type", not allowed
1866	ghs_signedness_changing_implicit_conversion_not_allowed implicit conversion from underlying type, "type", to underlying type, "type", changes signedness
1867	ghs_complex_implicit_conversion_not_allowed implicit conversion of complex expression from underlying type, "type", to underlying type, "type", not allowed
1868	ghs_arg_implicit_conversion_not_allowed implicit conversion of non-constant function argument from underlying type, "type", to underlying type, "type", not allowed

1869	ghs_ret_implicit_conversion_not_allowed implicit conversion of non-constant return expression from underlying type, "type", to underlying type, "type", not allowed
1870	ghs_boolean_implicit_conversion_not_allowed implicit conversion of boolean expression from underlying type, "type", to underlying type, "type", not allowed
1871	ghs_non_float_implicit_float_conversion_not_allowed implicit conversion from floating type, "type", to non-floating type, "type", not allowed
1872	ghs_narrowing_implicit_float_conversion_not_allowed implicit conversion from floating type, "type", to narrower type, "type", not allowed
1873	ghs_complex_implicit_float_conversion_not_allowed implicit conversion of complex floating point expression from type, "type", to type, "type", not allowed
1874	ghs_arg_implicit_float_conversion_not_allowed implicit conversion of function argument from floating type, "type", to type, "type", not allowed
1875	ghs_ret_implicit_float_conversion_not_allowed implicit conversion of return expression from floating type, "type", to type, "type", not allowed
1876	ghs_end_of_line_comment_not_allowed // style comment not allowed
1877	ghs_null_ptr_cast_not_allowed cast of 0 from type "type" to type "type" not allowed
1878	ghs_widening_complex_integer_cast_not_allowed cast of complex integer expression with underlying type "type" to wider type "type" not allowed
1879	ghs_same_width_complex_integer_cast_not_allowed cast of complex integer expression with underlying type "type" to same width type "type" not allowed
1880	ghs_signedness_changing_complex_integer_cast_not_allowed cast of complex integer expression with underlying type "type" to type "type" changes signedness

1881	ghs_explicit_test_of_constant_required explicit test of constant against zero required
1882	ghs_header_needs_include_guard header file needs guard to prevent multiple inclusion
1883	ghs_call_of_virtual_in_ctor_or_dtor call of virtual function inside constructor or destructor when extract vptrs is used
1884	ghs_break_required previous non-empty case clause doesn't fall through but must be terminated with a break statement
1885	ghs_underscore_name_redef_or_undef reserved identifier, macro, or function name "xxxx" beginning with an underscore cannot be defined, redefined, or undefined
1886	ghs_cmd_line_macro_misuse_not_allowed command-line macro definition can only be used for a braced initializer, constant, parenthesized expression, type qualifier, storage class specifier, or do-while-zero construct
1887	ghs_tda_disabled TDA is disabled for this configuration
1888	ghs_keyword_def_or_undef #define or #undef of keyword "xxxx"
1889	ghs_bad_alignfunc_alignment invalid alignfunc value
1890	ghs_init_but_not_modified initialized non-const entity-kind "entity" was used but never modified
1891	ghs_invalid_section_renaming_option invalid section renaming option:
1892	ghs_bitwise_with_comparison comparison operator has higher precedence than bitwise operator; parentheses recommended GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

1893	ghs_wrong_constructor_init_order entity-kind "entity" will be initialized before the previous constructor initializer, entity-kind "entity"
1894	ghs_prototype_restrict_qualifiers_differ "restrict" qualifier in declaration different from prototype entity-kind "entity" (declared at line xxxx)
1895	ghs_bool_to_pointer_conversion implicit conversion from bool to pointer type
1896	ghs_reserved_tracereg_use use of reserved trace register
1897	ghs_invalid_dc_pragma incorrect #pragma double_check xxxx
1898	ghs_if_statement_no_effect if statement does not affect control flow
1899	ghs_gets_unsafe use of gets is unsafe; use fgets instead GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

Errors 1900 to 1999

1900	ghs_scanf_unsafe use of %s in scanf is unsafe; specify a maximum field width GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1901	ghs_assign_const_addr_to_bool assignment of constant address to bool
1902	ghs_defined_needs_identifier defined must be followed by an identifier
1903	ghs_cannot_be_used_as_macro "xxxx" cannot be used as a macro

1904	ghs_sizeof_array_parameter sizeof pointer parameter yields size of pointer-to-type where size of array-of-type may have been intended
1905	ghs_bitwise_with_shift shift operator has higher precedence than bitwise operator; parentheses suggested
1906	ghs_call_setjmp_or_longjmp call to <code>setjmp()</code> and <code>longjmp()</code> is not allowed GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1907	ghs_call_atof_atoi_atol call to <code>atof()</code> , <code>atoi()</code> , and <code>atol()</code> is not allowed -- use <code>strtof()</code> or <code>strtol()</code> instead GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1908	ghs_string_initializer_truncated initialization of array of type "type" discards terminating null character GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1909	ghs_comma_only_in_1st_or_3rd_of_for_loop comma operator only allowed in the first or third expression of a for loop
1910	ghs_part_of_expr_has_no_effect part of expression has no effect GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1911	ghs_invalid_bit_field_initializer this expression cannot be used as the initializer for a bit field
1912	ghs_global_reg_must_have_scalar_type global register variable must have integral or pointer type GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.

1913	ghs_register_variable_too_wide variable's type is too wide for a single machine register GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1914	ghs_bool_bitfield_remark declared size for boolean bit-field is greater than 1
1915	ghs_cast_involves_incomplete_class_pointer cast involving pointer to incomplete class type "type" will not adjust for inheritance GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1916	ghs_alignof_bitfield __alignof__ operator cannot be applied to a bit-field
1917	ghs_zero_size_ptrdiff subtraction of pointers to zero-sized type "type"
1918	ghs_too_many_variables out of resources while compiling function "xxxx" (internal variable limit exceeded) The compiler limits the number of variables you can have per function to 65536, which is what causes this error. This limit includes both explicitly declared variables and internal variables the compiler produces. There is no way to increase this limit. One common cause of this error is run-time error checking, which instruments the C code and creates many internal variables. You might want to work around the limitation by selectively disabling run-time error checks.
1922	ghs_string_literal_comparison comparison with string literal has unspecified result
1923	ghs_unusual_pointer_literal_comparison unusual comparison of non-integer literal to pointer
1924	ghs_unusual_pointer_literal_assignment unusual assignment of non-integer literal to pointer
1925	ghs_ufd_type_requires_constructor type "type" must define a default constructor to initialize its members lacking default constructors
1926	ghs_ufd_uninitialized_fields entity-kind "entity" does not initialize the following fields:

1927	ghs_ufd_arg_is_not_modifiable_pointer initialized argument must be a pointer or reference to non-const GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1928	ghs_ufd_arg_does_not_exist argument index is greater than number of parameters
1929	ghs_plain_bitfield_may_overflow bit-field of same width as underlying type should be explicitly "signed" or "unsigned"
1930	ghs_cannot_override_final_member_function member entity-kind "entity" is marked "final" and cannot be overridden
1931	ghs_sizeof_complicated_expression operand of sizeof is not a type, variable, or dereferenced pointer expression GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1932	ghs_variable_format_string format string parameter is not a compile-time constant GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1933	ghs_va_list_passed_to_ellipsis "va_list" passed through ellipsis
1934	ghs_struct_passed_to_ellipsis aggregate type passed through ellipsis

1935	ghs_constructor_should_be_explicit one-argument constructor should be declared "explicit" This remark is issued whenever you declare a one-argument constructor without the <code>explicit</code> keyword. A non-explicit constructor participates in implicit type conversions. For example: <pre>struct Integer { int value; Integer(int v): value(v) {} }; void foo(const Integer &i); int main() { foo(0); } //Implicit conversion to Integer</pre> This program compiles because 0 may be implicitly converted to <code>Integer</code> via the non-explicit constructor. By adding the <code>explicit</code> keyword, you prevent such conversions; to pass 0 to <code>foo()</code> , you would have to write: <pre>struct Integer { int value; explicit Integer(int v): value(v) {} }; void foo(const Integer &i); int main() { foo(Integer(0)); }</pre>
1936	ghs_comparison_of_comparison comparison of comparison where two comparison expressions may have been intended
1937	ghs_dubious_comparison_of_bool possibly unintentional comparison of <code>bool</code> to non- <code>bool</code> GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1938	ghs_bytereversed_bitfield byte ordering qualifiers do not apply to bit-fields
1939	ghs_bytereversed_parameter byte ordering qualifiers do not apply to parameters
1940	ghs_bytereversed_initializer byte-reversed objects cannot be statically initialized
1941	restrict_qualifier_ignored restrict qualifier is ignored

1942	ghs_attribute_requires_typedef attribute "xxxx" may only be applied to a typedef
1943	ghs_strong_typedef_forbids_implicit_conversion strong typedef rules forbid implicit conversion from type "type" to type "type"
1944	ghs_two_cases_required_for_switch switch statement must contain at least two cases
1945	ghs_attribute_ignored_in_this_context the "xxxx" attribute is ignored in this context
1946	ghs_obsolete_attribute_syntax type attributes should follow the class/struct/union/enum keyword, not the closing brace
1947	ghs_field_not_at_requested_offset struct field is being placed at offset xxxx instead of requested offset This error is issued in connection with the at attribute.
1948	ghs_address_of_member_function_with_calling_convention a member function with a non-default calling convention may not have its address taken
1949	ghs_placement_array_new placement new[] may invoke undefined behavior and should not be used
1950	ghs_multiple_definitions_of_symbol multiple definitions of symbol "xxxx"
1951	ghs_virtual_function_without_virtual_keyword virtual entity-kind "entity" should be declared "virtual"
1952	ghs_addition_inside_shift + or - operator has higher precedence than shift operator; parentheses recommended
1953	ghs_string_concatenation adjacent string literals will be concatenated
1954	ghs_strncmp_argument_mismatch third argument to strncmp does not match the length of the string literal argument

1955	ghs_memset_length_is_zero third argument to memset is zero; second and third arguments may have been swapped accidentally
1956	ghs_length_is_not_multiple_of_target_size sizeof argument xxxx to xxxx does not divide value of argument xxxx
1957	ghs_malloc_of_strlen strlen used in memory allocation; strlen+1 was probably intended
1958	ghs_dubious_boolean_expression implausible operator at top level of boolean expression
1959	ghs_uninitialized_local_variable local entity-kind "entity" not initialized
1960	ghs_dubious_pair_of_comparisons apparently redundant comparisons may indicate a mistake
1961	ghs_relational_comparison_to_null pointer comparison to NULL depends on implementation-defined pointer signedness
1962	ghs_nonstd_case_range case range syntax is non-standard
1963	ghs_right_brace_after_label label not followed by statement is non-standard GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1964	ghs_cl_coding_standard_file_not_found cannot open coding standard file
1965	ghs_cl_coding_standard_file_error error in coding standard file:
1966	ghs_cl_tag_not_recognized unused coding standard tag or malformed error number

1967	ghs_dangerous_trigraph trigraph in source code has possibly unintended effect on semantics GHS Standard Mode enables this diagnostic. For more information about GHS Standard Mode, see the MULTI: Building Applications book.
1968	ghs_uninitialized_local_struct_variable local struct/union entity-kind "entity" not initialized
1969	ghs_lint_columns_dont_match statement begins in column different from first statement in its block
1970	ghs_callt_not_supported call tabled functions not supported in this compiler
1971	ghs_callt_interrupt_not_supported call tabled interrupt functions are not supported
1972	ghs_multiple_noninterface_base_class base specifier list contains more than one "non-interface" class Java and some other object-oriented languages support multiple inheritance of "interfaces", but only single inheritance of "implementation". In C++ terms, an "interface" is a class that contains only pure virtual member functions and static member data (in other words, it does not contain code or non-static data members). This diagnostic is given whenever a class specifies two or more "non-interface" classes in its list of base classes.
1973	ghs_packed_qualifier_dropped conversion drops "__packed" qualifier
1974	ghs_overloaded_and_or_comma overloading the &&, , or comma operators is dangerous
1975	ghs_dyn_initializer dynamic initialization causes code to be executed before main()
1976	ghs_long_constant_needs_suffix "long" or "long long" constant should be suffixed to indicate type
1977	ghs_strong_fptr_forbids_explicit_conversion strong fptr rules forbid explicit conversion from type "type" to type "type"

1978	ghs_strong_fptr_forbids_implicit_conversion strong fptr rules forbid implicit conversion from type "type" to type "type"
1979	ghs_strong_fptr_forbids_union strong fptr rules prohibit type "type" from being a member of a union
1980	ghs_not_enough_initializers not enough initializers; trailing elements will be default-initialized
1981	ghs_empty_initializer_is_nonstandard empty initializer is non-standard
1982	ghs_insufficient_stack_alignment target stack alignment is insufficient to guarantee alignment of entity-kind "entity"
1983	ghs_char_escape_backslash_e character escape sequence "\e" is non-standard
1984	ghs_char_escape_octal octal character escape sequences are not allowed
1985	ghs_char_escape_hexadecimal hexadecimal character escape sequences are not allowed
1986	ghs_misra_shift_count_too_large shift count is too large for underlying type "type"
1987	ghs_bad_ptr_ref_argument argument of type "type" is incompatible with ptr_ref parameter
1988	ghs_fmt_arg_has_incorrect_type format argument has incorrect type "type"
1989	ghs_mismatched_memcpy_sizes arguments xxxx and xxxx to xxxx have pointer types whose targets differ in size
1990	ghs_memcpy_size_has_no_sizeof argument xxxx to xxxx must be of the form n*sizeof(a)

1991	ghs_length_uses_wrong_sizeof argument xxxx to sizeof has a type inconsistent with the sizeof-expression in argument xxxx
1996	ghs_linkonce_cannot_be_inline a __linkonce function cannot be inline
1997	ghs_linkonce_cannot_be_static a __linkonce function cannot be static
1999	ghs_misra_recursion function "xxxx" contains possible recursion

Errors 2000 to 2099

2000	ghs_attribute_not_implemented attribute "xxxx" is not implemented and will be ignored
2001	ghs_function_like_macro_invocation_not_allowed invocation of function-like macro not allowed
2002	ghs_character_greater_than_127 character greater than 127 not allowed
2003	ghs_pointer_to_larger_alignment alignment of type pointed to by "type" is smaller than the one pointed to by "type", which may lead to a misaligned memory access
2004	ghs_signed_unsigned_promotion operation promotes signed type "type" to unsigned type "type", which may lead to unintended results
2005	ghs_whitespace_after_backslash_not_recommended line splicing inhibited by whitespace after backslash
2006	ghs_sideeffect_missing_volatile __[no]sideeffect must be preceded by volatile, otherwise it is ignored
2007	ghs_eagle_tag_bad_usage '__ghs_eagle_tag' may only be used as a simple assignment inside of 'if' statement conditional; 'if' statement may not have 'else'

2008	ghs_no_var_init potentially unintended initializer with no named variable
2009	ghs_sideeffect_nosideeffect_mix mixing <code>__sideeffect</code> and <code>__nosideeffect</code> qualifiers not allowed
2010	ghs_strong_fptr_non_fptr_typedef 'strong_fptr' attribute invalid for non-function pointer typedef
2011	ghs_strong_fptr_unnamed_struct 'strong_fptr' attribute invalid for unnamed struct/class
2012	ghs_nonstd_static_assert Use of static assertions is nonstandard
2013	ghs_future_library_name_redef_or_undef identifier "xxxx" reserved for future library use cannot be defined, redefined, or undefined
2014	ghs_expression_in_dependent_typeof an expression is not allowed in a template-dependent <code>typeof</code> specifier
2015	ghs_strong_fptr_with_struct_member_no_sfptr type "type" has non-strong function pointers -- it cannot be a member or base class of strong_fptr type "type"
2016	ghs_sideeffect_qualifier_on_automatic_var non-static local variable may not be qualified by, or contain field qualified by, ' <code>__sideeffect</code> '
2017	ghs_unsequenced_assignments detected potentially undefined behavior resulting from multiple unsequenced assignments to a stored value
2018	ghs_unsequenced_assignment_and_use detected potentially undefined behavior resulting from an unsequenced read of, and assignment to, a stored value
2019	ghs_uninitialized_local_array_variable local array entity-kind "entity" not initialized
2020	ghs_packing_of_non_POD packing ignored on non-POD type "type"

2021	ghs_not_inlining_inline_func not inlining call of inline function "xxxx" because xxxx
2022	ghs_not_inlining_always_inline_func not inlining call of always_inline function "xxxx" because xxxx
2023	ghs_inlining_non_inline_func inlining call of function "xxxx" even though it is not declared as inline
2024	ghs_optimization_attribute_conflict conflicting optimization strategy attribute
2027	ghs_split_section_exists_as_user_section section "xxxx" already exists as a user-defined section, not being used as individual section
2028	ghs_user_section_exists_as_split_section user defined section "xxxx" was used as an individual section, potentially undefined behavior
2029	ghs_identifier_on_blacklist identifier "xxxx" is on blacklist

Errors 2900 to 2999

2907	range_based_for_missing_function to be used with range-based "for" statements, type "type" must provide function "xxxx"
2908	missing_notequal_on_range_based_for_type the iterator type in this range-based "for" statement is "type", which is not a pointer type or an iterator-like class type
2909	missing_incr_on_range_based_for_type the iterator type in this range-based "for" statement is "type", which is not a pointer type or an iterator-like class type
2910	missing_indirect_on_range_based_for_type the iterator type in this range-based "for" statement is "type", which is not a pointer type or an iterator-like class type

2911	range_based_for_incomplete_array_type a range-based "for" statement cannot operate on an array of unknown size or incomplete type "type"
2912	begin_end_type_mismatch_in_range_based_for return types for "begin" and "end" functions used in a range-based "for" statement must be the same ("begin" return type is "type", "end" return type is "type")
2914	range_based_for_no_matching_overload in this range-based "for" statement, no instance of "entity" matches the argument list
2915	range_based_for_undefined_identifier this range-based "for" statement requires a suitable "xxxx" function and none was found

Chapter 2

Linker Error Messages

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This chapter lists error messages that you may encounter when linking code, listed by error number.

Linker Error Message Codes

The following list contains all the linker error messages:

Errors 1 to 99

1	Fatal Error expected <code>-Cname=value</code> Option -Cname is not followed by expected syntax of equal sign and constant.
2	Fatal Error expected <code>'{'</code> for memory map MEMORY directive not followed by bracket. See syntax for MEMORY directive in “Defining a Memory Map with the MEMORY Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i> .
3	Fatal Error expected <code>ORIGIN</code> in memory declaration for <code>xxxx</code> In MEMORY directive, block declaration not followed by <code>ORIGIN</code> . See syntax for MEMORY directive in “Defining a Memory Map with the MEMORY Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i> .
4	Fatal Error negative <code>LENGTH</code> in memory declaration In MEMORY directive, block declared with <code>LENGTH</code> less than zero. Memory block length must be non-negative integer.
5	Fatal Error expected <code>LENGTH</code> in memory declaration for <code>xxxx</code> In MEMORY directive, block declaration not followed by <code>LENGTH</code> . See syntax for MEMORY directive in “Defining a Memory Map with the MEMORY Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i> .

6	<p>Fatal Error</p> <p>expected '{' for constant list</p> <p>DEFAULTS or CONSTANTS directive not followed by open bracket. See syntax for DEFAULTS directive in “Setting Defaults with the DEFAULTS Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i>.</p>
7	<p>Fatal Error</p> <p>don't know how to evaluate xxxx(...) as a constant</p> <p>Expected expression that evaluates to a constant, either a number, a previously defined constant symbol, or some arithmetic combination of those.</p>
8	<p>Fatal Error</p> <p>don't know how to evaluate xxxx as a constant</p> <p>Expected expression that evaluates to a constant, either a number, a previously defined constant symbol, or some arithmetic combination of those.</p> <p>Example:</p> <pre> DEFAULTS { foo = 0x2000 // Correct bar = foo + 0x2000 // Correct baz = nonsense // Error, don't know how to evaluate // nonsense as a constant } </pre>
9	<p>Fatal Error</p> <p>section contents may not be specified with -default_section</p> <p>Option -default_section declares section contents.</p> <p>Example:</p> <pre>-default_section ".text=.mytext : { *(.text2) }"</pre> <p>Correct:</p> <pre>-default_section .text=.mytext</pre>
10	<p>Fatal Error</p> <p>expected -argcheck=none normal full</p> <p>Option -argcheck given parameter other than none, normal, or full.</p>

11	<p>Fatal Error</p> <p>section xxxx multiply defined in section map</p> <p>Section declared more than once in SECTIONS directive.</p> <p>Example:</p> <pre>SECTIONS { .mytext : > . .mytext : }</pre>
12	<p>Fatal Error</p> <p>expected -ccvcheck=none partial full</p> <p>Option -ccvcheck given parameter other than none, partial, or full.</p>
13	<p>Fatal Error</p> <p>expected OPTION("-option")</p> <p>OPTION directive did not contain string expression.</p> <p>Example:</p> <pre>OPTION(-append)</pre> <p>Correct:</p> <pre>OPTION("-append")</pre>
14	<p>Fatal Error</p> <p>expected -Y U L UL,dir</p> <p>Option -Y not followed by U, L, or UL.</p>
15	<p>Fatal Error</p> <p>CROM sections are not supported with -a or -r</p> <p>CROM section attribute used with relocatable object link.</p> <p>Solution: Use CROM in final, absolute link stage or use uncompressed ROM.</p>
16	<p>Fatal Error</p> <p>cannot find file xxxx</p> <p>An option refers to a specific file which does not exist.</p> <p>Example:</p> <pre>ccppc -exportall=dummy.o hello.c</pre> <p>Solution: Make sure the file exists or remove the option referring to it.</p>

17	<p>Fatal Error</p> <p>No files to link. Use -help for help</p> <p>Linker has been invoked without specifying any modules to link on the command line. Provide valid object files to link into an executable.</p>
18	<p>Fatal Error</p> <p>Section xxxx cannot have additional contents because it is already ROMming section xxxx</p> <p>A section with the ROM directive may not also be declared with other section contents.</p> <p>Example:</p> <pre>SECTIONS { .text : > . .ROM.text ROM(.text) : { *(.text2) } > . }</pre> <p>Correct:</p> <pre>.ROM.text ROM(.text) : > .</pre>
19	<p>Fatal Error</p> <p>In section map, expected: *(section) or file(section) or library(file)(section) or library(*) (section) instead of 'xxxx', or missing ';' after expression</p> <p>Unrecognized section contents specified in SECTIONS directive.</p> <p>Example:</p> <pre>SECTIONS { .text : { .text2 } > . }</pre> <p>Correct:</p> <pre>SECTIONS { .text : { *(.text2) } > . }</pre> <p>See section inclusion commands syntax in “Writing Section Inclusion Commands” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i>.</p>

20	Fatal Error expected section name instead of 'xxxx' SECTIONS directive contains entry that is not a valid section name. Example: <code>SECTIONS { * : > . }</code> Correct: <code>SECTIONS { .text : > . }</code> See syntax for SECTIONS directive in “Defining a Section Map with the SECTIONS Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i> .
21	Fatal Error cannot find library xxxx Specified library does not exist in the library directories provided. Example: <code>ccppc -ldummy hello.c</code> Solution: Make sure library exists, add the directory to find it with -L , or remove the library from build if unnecessary.
22	Fatal Error <code>-shared_lib</code> and <code>-use_shared_libs</code> are mutually exclusive The -shared_lib and -use_shared_libs options cannot both be used. Choose one or the other.
23	Fatal Error Multiple ROM directives for section xxxx More than one ROM directive specified for a single section. Example: <code>SECTIONS { .ROM.text ROM(.text) ROM(.data) : > . }</code> Correct: <code>SECTIONS { .ROM.text ROM(.text) : > . }</code>

24	<p>Fatal Error</p> <p>section xxxx already has a start directive</p> <p>BIND directive encountered in SECTION map entry that already has a start_expression. This counts as a start_expression, and each section may only have one. See syntax for SECTIONS directive in “Defining a Section Map with the SECTIONS Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i>.</p> <p>Example:</p> <pre>SECTIONS { .text BIND(0x1000) BIND(0x2000) : }</pre> <p>Correct:</p> <pre>SECTIONS { .text BIND(0x1000) : }</pre>
25	<p>Fatal Error</p> <p>expected -Dsymbol=value</p> <p>Option -Dsymbol is not followed by expected syntax of equal sign and constant.</p>
26	<p>Fatal Error</p> <p>expected -default_section leader=follower</p> <p>Option -default_section is not provided an argument in the form of .section1=.section2.</p> <p>Example:</p> <pre>ccppc hello.c -lnk="-default_section .text"</pre> <p>Correct:</p> <pre>ccppc hello.c -lnk="-default_section .text=.text2"</pre>
27	<p>Fatal Error</p> <p>expected -debug_section section=data</p> <p>Incorrect syntax for option -debug_section, which requires argument in the form section=data.</p>
28	<p>Fatal Error</p> <p>expected '}' for section map</p> <p>Link map has a SECTIONS directive with an open bracket and no matching close bracket.</p>

29	Non-Fatal Error GNU linkmap output filename not specified -gnu_linkmap option used without specifying the name of the file to output. Example: <code>ccppc hello.c -lnk=-gnu_linkmap</code> Correct: <code>ccppc hello.c -lnk=-gnu_linkmap=out.ld</code>
30	Fatal Error .section xxxx references unknown memory block xxxx In SECTIONS directive, a section is assigned to a block that has not been declared with a MEMORY directive. Example: <code>SECTIONS { .text : > block_unknown }</code> Correct: <code>MEMORY { block_known : ORIGIN = 0x1000, LENGTH = 0x1000 }</code> <code>SECTIONS { .text : > block_known }</code>
31	Fatal Error section declared more than once with -default_section The same section is defined with two different -default_section options. Example: <code>ccppc hello.c -lnk="-default_section .text=.text2" \ -lnk="-default_section .rodata=.text2"</code> Correct: <code>ccppc hello.c -lnk="-default_section .text=.text2"</code>

32	<p>Fatal Error</p> <p>expected -follow_section leader=follower</p> <p>Option -follow_section is not provided a parameter in the form of .section1=.section2.</p> <p>Example:</p> <pre>ccppc hello.c -lnk="-follow_section .text"</pre> <p>Correct:</p> <pre>ccppc hello.c -lnk="-follow_section .text=.text2"</pre>
33	<p>Fatal Error</p> <p>expected '{' for section map</p> <p>SECTIONS directive is not immediately followed by an open bracket. See syntax for SECTIONS directive in “Defining a Section Map with the SECTIONS Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i>.</p>
34	<p>Fatal Error</p> <p>unknown directive xxxx for section xxxx (perhaps a second <start> directive?)</p> <p>In SECTIONS directive, a section is declared with an expression that is not recognized as a valid section attribute and cannot be the start_expression, since the section already has a start_expression. See syntax for SECTIONS directive in “Defining a Section Map with the SECTIONS Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i>.</p> <p>Example:</p> <pre>SECTIONS { .text 0x1000 NONSENSE ALIGN(8) : }</pre> <p>Correct:</p> <pre>SECTIONS { .text 0x1000 ALIGN(8) : }</pre>
35	<p>Fatal Error</p> <p>expected ':' in the section map</p> <p>In SECTIONS directive, a section name is not followed by a colon. See syntax for SECTIONS directive in “Defining a Section Map with the SECTIONS Directive” in the chapter “The elxr Linker” in <i>MULTI: Building Applications</i>.</p>

36	Fatal Error already have a load address for xxxx Multiple LOAD or AT directives declared for the same section. Example: <code>SECTIONS { .text LOAD(0x1000) LOAD(0x2000) : }</code> Correct: <code>SECTIONS { .text LOAD(0x1000) : }</code>
37	Fatal Error argument too long An option was provided an argument billions of characters long.
38	Fatal Error expected <code>-symbol_override oldsym=newsym</code> Incorrect syntax for option -symbol_override , which requires argument in the form symbol=symbol .
39	Fatal Error expected <code>-Qy</code> or <code>-Qn</code> Option -Q followed by something other than the character y or n .
40	Fatal Error xxxx is an invalid diagnostic number -elxr_diag(suppress error warning) option provided with an argument that does not correspond to a valid diagnostic number. Example: <code>ccppc hello.c -lnk="-elxr_diag_warning -1"</code>
41	Fatal Error diagnostic #xxxx cannot be suppressed Attempt to use -elxr_diag_suppress on a fatal error number.
42	Fatal Error diagnostic #xxxx cannot be demoted to a warning Attempt to use -elxr_diag_warning on a fatal error number.

43	Fatal Error could not access file: xxxx A .raw file specified with -rawimport option cannot be opened for reading.
44	Fatal Error While allocating commons: unknown common symbol xxxx from module xxxx for section #### A variable using the --commons syntax could not be mapped to a suitable section.
45	Fatal Error malformed .ghs.linkonce section name "xxxx" A linkonce section name is not in the form: .ghs.linkonce.NUMBER.SECTION Example invalid symbol name: .ghs.linkonce.text or .ghs.linkonce.1 Example correct symbol name: .ghs.linkonce.1.text
47	Fatal Error module xxxx differs in machine type or endianness Attempting to link together incompatible modules, compiled with different endianness modes or for completely different architectures.
48	Fatal Error write failed The linker was not allowed by the host operating system to finish writing data to an output file. Possibly the disk is full.
49	Fatal Error unknown internal relocation: #### A module contains an unrecognized relocation code in a special reserved range.
50	Fatal Error Couldn't ROM xxxx to xxxx because section "xxxx" does not exist The ROM directive is used to declare a section as the ROM copy of a section that does not exist. Example: <pre>SECTIONS { .ROM.text ROM(.unknown) : }</pre> Correct: <pre>SECTIONS { .ROM.text ROM(.text) : }</pre>

51	Fatal Error [InMem TimeMachine] (error) Unable to locate a .inmemtm-like section during a kernel link The option -inmemtm is used to link the INTEGRITY kernel but the link map does not define any *.inmemtm sections.
52	Fatal Error .couldn't open file xxxx Maybe another process has xxxx this file? An object file being linked could not be opened for reading by the host operating system.
53	Fatal Error different machine flags in module xxxx: #### vs #### in other modules (machine = ####) Two modules being linked together have different and incompatible ELF flags, suggesting they were not compiled for the same processor type.
54	Fatal Error Couldn't CROM xxxx to xxxx because section "xxxx" does not exist The CROM directive is used to declare a section as the compressed ROM copy of a section that does not exist. Example: SECTIONS { .ROM.text CROM(.unknown) : } Correct: SECTIONS { .ROM.text CROM(.text) : }
55	Fatal Error can't have an 8-bit branch displacement of #### xxxx
57	Fatal Error module xxxx was compiled with registermode=32 but previous modules were compiled with registermode=22 RH850 specific. A module compiled with -registermode=22 is being linked with a module compiled with the incompatible -registermode=32 option.

59	Fatal Error <code>.ghstraceedge</code> section must be in 16-bit address range for ZDA mode PowerPC specific. <code>*.ghstraceedge</code> section is located too far from address 0.
60	Fatal Error bad character in literal: 'xxxx' in 'xxxx' An option was expecting an integer value and got something else. Example: <code>ccppc hello.c -lnk=-Cdummy=notanumber</code> Correct: <code>ccppc hello.c -lnk=-Cdummy=152</code>
61	Fatal Error can't link xxxx module 'xxxx' to xxxx module 'xxxx' (incompatible machine flags ##### vs #####) Two modules being linked together have different and incompatible ELF flags, suggesting they were not compiled for the same processor type.
62	Fatal Error Division by zero in relocation stack xxxx A complex relocation expression is attempting to divide by a relocation that evaluates to a value of zero.
63	Fatal Error missing a vital dynamic section in xxxx An INTEGRITY shared library object does not contain expected <code>.dynamic</code> or <code>.dynsym</code> sections.
64	Fatal Error <code>-map_file</code> and <code>-prof_file</code> are required with <code>-profile</code> . Use <code>-help</code> for help The <code>-cfprofile</code> option is used but the corresponding <code>-cfmap_file</code> and <code>-cfprof_file</code> options have not been used to specify input files with profiling data.

65	Fatal Error <code>.cannot merge symbol with incompatible special common types: xxxx</code> A <code>COMMON</code> symbol appears in two different modules with incompatible declarations such that they each belong in different section types.
66	Fatal Error <code>cannot open directive file 'xxxx' (xxxx)</code> An option file (specified with a 'e', like <code>elxr @commands.txt</code>) cannot be opened for reading by the host operating system. Does the file exist?
67	Fatal Error <code>unable to obtain a suitable license</code> A license may not be available to use the toolchain for various reasons. There could be a configuration or network issue, the licenses could all be in use, etc. Read documentation on licensing to troubleshoot.
68	Fatal Error <code>Attempt to change the size of section "xxxx" which was already used in a relocation</code>
70	Fatal Error <code>file read failed for xxxx: possible file corruption or disk error</code> Could not read from ELF module, or the values read are not properly formatted. This file may have been corrupted and should probably be removed and rebuilt.
71	Fatal Error <code>SHT_GROUP section xxxx has an invalid sh_info index ####</code> An <code>SHT_GROUP</code> section does not have the index of a corresponding symbol.
72	Fatal Error <code>Function xxxx in xxxx in .text must be a multiple of four-bytes in size</code> PowerPC specific. A non-VLE function has a size that is not 4 byte aligned.
73	Fatal Error <code>..robase section does not exist</code>

74	Fatal Error Reference to non-exported symbol xxxx in module xxxx The <code>-exported_absolutes_only</code> option is used and there is a relocation to an external absolute symbol that has not been explicitly exported by an entry in the <code>.ghsexports</code> section.
75	Fatal Error More than one <code>.ghstraceedge</code> like section in linker directive file The section map contains multiple sections matching: <code>*.ghstraceedge</code>
76	Fatal Error different machine flags in module xxxx: ##### vs ##### in other modules Two modules being linked together have different and incompatible ELF flags, suggesting they were not compiled for the same processor type.
77	Fatal Error attempt to allocate non-empty section xxxx to zero-length memory region xxxx A section has been assigned a block of memory of size zero. Example: <pre>MEMORY { block_zero : ORIGIN = 0x10000, LENGTH=0x0 } SECTIONS { .text : > block_zero }</pre> Correct: <pre>MEMORY { block_nzero : ORIGIN = 0x10000, LENGTH=0x8000 } SECTIONS { .text : > block_nonzero }</pre>
78	Fatal Error Malformed object file: xxxx(xxxx) has bad symbols The object file format is wrong and possibly corrupt. A symbol is listed at a location that exceeds the size of the section it is in.
79	Fatal Error Unknown or malformed function description symbol xxxx in module xxxx A Green Hills Compiler generated symbol name beginning with the prefix <code>..gh.f.</code> has an unsupported format containing unexpected characters. The object file could be generated by a compiler of a newer version than the linker executable.

80	Fatal Error Relocation to overridden local linkonce symbol xxxx(xxxx) Something has gone wrong with template instantiation and there are references to a redundant instance that have not been redirected to the chosen instance. This might happen if one of the modules referencing the template was not recompiled after changing the template.
81	Fatal Error Division by zero in relocation stack xxxx
82	Fatal Error Relocation stack underflow xxxx Blackfin specific. A complex expression relocation expected to be preceded by another relocation on the stack but was not.
83	Fatal Error section xxxx's start address differs from the absolute (.org) address in module xxxx A section marked with an absolute fixed address is placed in an output section with a different, incompatible address.
84	Fatal Error compressed section xxxx is invalid: rommed section xxxx has type SHT_NOBITS A compressed ROM section is created for a section that is not initialized with data and therefore has nothing to compress. Example: SECTIONS { .ROM.bss CROM(.bss) : } Correct: SECTIONS { .ROM.data CROM(.data) : }
85	Fatal Error xxxx is an empty file Attempted to translate a COFF file that contained no data into an ELF file.
87	Fatal Error Attempt to change the value of symbol "xxxx" which has already been relocated

88	Fatal Error SHT_GROUP section xxxx has no flags word A GROUP section exists but contains no data.
89	Fatal Error archive xxxx is missing its symbol table, and errors occurred while recovering. Run 'ax -ts xxxx' to rebuild table manually A library archive was missing the appropriate index that would allow us to access it, and an attempt to automatically generate this information failed. You can try to reformat this archive yourself using ax-ts
90	Fatal Error .could not generate a -prog2 image. Program header summary: xxxx The option -prog2 was used, unsuccessfully.
91	Fatal Error AutoSDA is incompatible with TraceEdge The linker -sdaize or -zdaize optimization options are not supported in conjunction with the -traceedge or -inmemtm trace instrumentation options.
92	Fatal Error error reading library xxxx A library file was either unavailable for reading by the host operating system or the header was not formatted like a proper archive file.
93	Fatal Error file xxxx is not a library The header of a library file is not marked like a proper ELF archive should be.
94	Fatal Error literal 'xxxx' is out of range An immediate value is specified that would be more than 64-bits. Example: <pre>MEMORY { block_big : ORIGIN = 0, LENGTH=1000000000000000M }</pre>
96	Fatal Error unhandled symbol xxxx in section xxxx of module xxxx; this module might contain invalid inline assembly statements Linker optimizations were unable to properly disassemble the contents of a function. This may be due to inline assembly that is not safe to optimize.

98	Fatal Error <code>.ghstraceedge</code> section must have non-zero size The -traceedge option is used, but a <code>*.ghstraceedge</code> section is totally empty.
99	Fatal Error module <code>xxxx</code> was compiled with <code>-registermode=22</code> but previous modules were compiled with <code>-registermode=32</code> RH850 specific. A module compiled with -registermode=22 is being linked with a module compiled with the incompatible -registermode=32 option.

Errors 100 to 199

100	Fatal Error <code>badly formed argument checking symbol encountered</code> Link-time argument checking is used, but the argument checking symbol name does not conform to expected syntax. These labels are expected to be in the form: <code>__calle[e r].FunctionName.ReturnType.ArgumentList</code>
103	Fatal Error <code>ZDA overflow: symbol 'xxxx' out of range</code> TriCore specific. <code>R_TRICORE_18ABS</code> relocation out of range.
104	Fatal Error <code>Possible xxxx incompatibility between modules xxxx and xxxx</code> C++ ABI compilation options do not match for two of the modules being linked together. Make sure both are up to date and compiled with similar options.
105	Fatal Error <code>.sdatabase</code> section does not exist The section map does not declare an <code>.sdatabase</code> section. Add one to the link map, or recompile without -sda options.
106	Fatal Error <code>xxxx</code> section does not exist V800 specific. A required SDA related section is missing from the link map.

107	Fatal Error AutoSDA cannot operate on a section map containing <code>.PPC.EMB.sbss0</code> but not <code>.PPC.EMB.sdata0</code> PowerPC specific. The link time ZDA optimization is enabled, and the link map contains a <code>.PPC.EMB.sbss0</code> section, but not a <code>.PPC.EMB.sdata0</code> section. Add a <code>.PPC.EMB.sdata0</code> section to the link map or disable the ZDA optimization.
108	Fatal Error <code>.sdatabase</code> section not defined The section map does not declare an <code>.sdatabase</code> section. Add one to the link map, or recompile without -sda options.
109	Fatal Error corrupt dynamic string table reference in <code>xxxx</code> An INTEGRITY shared library has an invalid entry in <code>.dynamic</code> section.
110	Fatal Error unable to obtain license for product code <code>####</code> Linking a proprietary module that requires a separate license, but a license was unavailable. Read licensing documentation or contact support.
111	Fatal Error module <code>xxxx</code> has incompatible FPU version <code>xxxx</code> , should be <code>xxxx</code> RH850 specific. Two modules are compiled for different floating point versions. Make sure all modules are recompiled with compatible options.
112	Fatal Error corrupt string table reference for symbol <code>####</code> in <code>xxxx</code> This ELF object file has invalid references from symbol table to string table. It is possible that it has been corrupted and needs to be rebuilt.
114	Fatal Error section <code>xxxx</code> in module <code>xxxx</code> does not conform to the ABI, has item with unrecognized name <code>xxxx</code> RH850 specific. The <code>.note.renesas</code> containing supplemental ABI information is not properly formatted. Expected to contain the string <code>REL</code> in note entry.
115	Fatal Error <code>sh_entsize</code> is 0 in section <code>####</code> of module <code>xxxx</code> A table section is marked with an invalid entry size of zero.

116	Fatal Error problem during translation to ELF for xxxx Translating COFF object file to ELF was unsuccessful. Attempt to translate to ELF file manually using gcof2elf or recompile with ELF tools.
117	Fatal Error not an ELF object file: xxxx An object file header is not properly formatted according to the ELF standard. Make sure it is an ELF object file.
118	Fatal Error module xxxx was compiled with ep(r30) not reserved but previous modules may have been RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve ep(r30). Compile all files with the same option.
119	Fatal Error couldn't find section xxxx needed to initialize symbol xxxx A required section was not defined in the link map, so add it there.
120	Fatal Error couldn't redirect every reference from xxxx to xxxx
121	Fatal Error module xxxx has incompatible data alignment xxxx, should be xxxx RH850 specific. Not all object files were compiled according to the same ABI data alignment setting. Compile all files with the same option.
122	Fatal Error bad magic number in archive xxxx at offset #### Library header contains unexpected characters. Possibly corrupt file.
123	Fatal Error Both STF_BYTE2 and STF_BYTE4 set on symbol xxxx Blackfin specific. A symbol has two conflicting bits set in st_other field.
124	Fatal Error module xxxx has incompatible double size xxxx, should be xxxx RH850 specific. Not all object files were compiled according to the same ABI double size setting. Compile all files with the same option.

125	Fatal Error unable to parse license identifier A proprietary module has improperly formatted licensing information. Contact customer support for help resolving.
127	Fatal Error file xxxx didn't have a symbol table An ELF object file is expected to have a table of symbols, but this did not. This file is possibly corrupt or not a valid ELF file.
128	Fatal Error _Small_Data_A8_ symbol is not defined for a8-relative SDA TriCore specific. SDA is used, but no _Small_Data_A8_ symbol is defined. Declare that symbol in the link map or disable SDA optimizations.
129	Fatal Error .unknown object file format in xxxx Object file is in a format that is neither ELF nor a supported COFF format. This file may need to be recompiled with tools that use a supported format.
130	Fatal Error module xxxx was compiled with r2 reserved but previous modules may not have been RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve r2. Compile all files with the same option.
131	Fatal Error -rpxtntp requires .ghstraceedge section defined in section map Option -rpxtntp is used, but .ghstraceedge section is not defined in link map. Define that section or eliminate the option.
132	Fatal Error encountered PICBASE relocation in .rel section V800 specific. The PICBASE relocation is only supported in sections that use the .rela format, such as those generated by GHS Compilers.
134	Fatal Error Could not compress xxxx to xxxx A compressed ROM section is created for a section that is not initialized with data and therefore has nothing to compress.

135	Fatal Error combining Elf64 relocatable file into Elf32 executable A file using the 64-bit ELF format is being linked into a 32-bit program. If this is being done intentionally, you can work around it using the -allow_elf64_to_elf32 linker option, otherwise recompile in a 32-bit mode.
136	Fatal Error V800: section xxxx in module xxxx is too large to insert a farcall patch for function xxxx V800 specific. Linker far call patching failed because this module is larger than the maximum range of a non-far call. Read documentation on far calls for possible alternatives to linker far call patching.
137	Fatal Error module xxxx was compiled with gp(r4) not reserved but previous modules may have been RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve gp(r4). Compile all files with the same option.
138	Fatal Error module xxxx was compiled with r2 not reserved but previous modules may have been RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve r2. Compile all files with the same option.
139	Fatal Error _SMALL_DATA_ symbol is not defined TriCore specific. SDA is used, but no _SMALL_DATA_ symbol is defined. Declare that symbol in the link map or disable SDA optimizations.
140	Fatal Error module xxxx was compiled with tp(r5) reserved but previous modules may not have been RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve tp(r5). Compile all files with the same option.
141	Fatal Error _SMALL_DATA_A9_ symbol is not defined for a9-relative SDA TriCore specific. SDA is used, but no _SMALL_DATA_A9_ symbol is defined. Declare that symbol in the link map or disable SDA optimizations.

142	Fatal Error <code>.bad ELF object file (header): xxxx</code> An ELF header is not properly marked, indicating that the object file could be corrupt or in an unsupported format. Recompile with supported tools.
143	Fatal Error <code>section xxxx has different types in xxxx (type=####) and xxxx (type=####)</code> Two sections given the same name are fundamentally different section types. Make sure that custom sections are defined with the same attributes wherever they are used, or give different uses a new section name to resolve conflicts.
144	Fatal Error SDA/ZDA is not supported on the section used as the TraceEdge instrumentation section PowerPC specific. Some modules are attempting to use the same register for SDA/ZDA optimizations that others are using for TraceEdge instrumentation. Make sure all modules are compiled with consistent options, and either disable the conflicting SDA optimization or change the TraceEdge register.
145	Fatal Error <code>.SHT_GROUP section xxxx contains invalid section index ####</code> A GROUP entry references a section that does not exist in that module. This ELF file may be corrupt or in an unsupported format.
146	Fatal Error <code>.pcpdata section must exist for -pcptrans</code> TriCore specific. The .pcpdata is not defined in link map. Either define that section or disable the -pcptrans option.
147	Fatal Error Failure to initialize TraceEdge framework The -inmemtm option is used, but the required record symbols are not present.
148	Fatal Error <code>couldn't ROM xxxx to xxxx</code> Failed to generate a ROM() section because either the ROM section already has contents of its own or the RAM version is a non-standard section type.

149	Fatal Error section xxxx in module xxxx does not conform to the ABI RH850 specific. The <code>.note.renesas</code> containing supplemental ABI information is not properly formatted.
150	Fatal Error relocation section #### has invalid <code>sh_info</code> field #### (should be a section index) An ELF relocation section refers to another section that does not exist. This could indicate a corrupt file or unsupported file format.
151	Fatal Error module xxxx was compiled with <code>tp(r5)</code> not reserved but previous modules may have been RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve <code>tp(r5)</code> . Compile all files with the same option.
153	Fatal Error <code>.ghstraceedge</code> section size must be a non-zero power of 2 The <code>-traceedge</code> option is used, but a <code>*.ghstraceedge</code> section has an invalid size. This section should have a power of 2 size.
154	Fatal Error AutoSDA cannot operate on a section map containing <code>.sbss</code> but not <code>.sdata</code> PowerPC specific. The link time SDA optimization is enabled, and the link map contains an <code>.sbss</code> section, but not an <code>.sdata</code> section. Add an <code>sdata</code> section to the link map or disable the SDA optimization.
155	Fatal Error Possible xxxx incompatibility detected in module xxxx
157	Fatal Error bad relocation sequence: expected HIGH to be followed by IPAIR, not nothing V800 specific. A HIGH relocation should be followed by an IPAIR relocation.
158	Fatal Error module xxxx was compiled with <code>gp(r4)</code> reserved but previous modules may not have been RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve <code>gp(r4)</code> . Compile all files with the same option.

160	Fatal Error <code>.pcptext</code> section must exist for <code>-pcptrans</code> TriCore specific. The <code>.pcpdata</code> is not defined in link map. Either define that section or disable the -pcptrans option.
161	Fatal Error <code>_LITERAL_DATA_</code> symbol is not defined TriCore specific. SDA is used, but no <code>_LITERAL_DATA_</code> symbol is defined. Declare that symbol in the link map or disable SDA optimizations.
162	Fatal Error <code>couldn't find section .sdabase</code> SH specific. The <code>.sdabase</code> section must be declared in link map.
163	Fatal Error <code>module xxxx has incompatible SIMD/FPSIMD mode xxxx, should be xxxx</code> RH850 specific. Not all object files were compiled according to the same ABI SIMD mode setting. Compile all files with the same option.
165	Fatal Error <code>module xxxx was compiled with ep(r30) reserved but previous modules may not have been</code> RH850 specific. Not all object files were compiled in the same mode with regard to whether to reserve <code>ep(r30)</code> . Compile all files with the same option.
166	Fatal Error <code>module xxxx has a conflicting register usage (regmask = 0x####) in S1/S2 and S4 instructions with those of previous modules (cumulative regmask = 0x####)</code> RH850 specific. Not all object files were compiled according to the same ABI register usage setting. Compile all files with the same option.
167	Fatal Error <code>bad relocation sequence: expected HIGH to be followed by IPAIR, not ####</code> V800 specific. A <code>HIGH</code> relocation should be followed by an <code>IPAIR</code> relocation.

168	Fatal Error link-time SDA cannot be performed: relocation in module xxxx at xxxx+#### to section xxxx+#### The link-time AutoSDA optimization cannot be performed because there are relocations relative to data sections rather than the symbols within those data sections. It is not safe to optimize section relative relocations because it is unknown what variables they might be referring to. If this type of relocation occurs in compiled code built for AutoSDA, it might indicate a compiler bug.
169	Fatal Error Unexpected relocation kind (####) from a function descriptor xxxx [xxxx] + 8 for the TOC base PowerPC64 specific. Unexpected PPC64 TOC base relocation type in .opd section.
170	Fatal Error Internal error - expected a ppc64 farcall
171	Fatal Error Section xxxx is larger than #### bytes A section in a 32-bit ELF image exceeds 32-bits in size.
172	Fatal Error Relocation of type R_MIPS_PICHIGHADJ encountered without a preceding R_MIPS_PICBASE MIPS specific. An R_MIPS_PICHIGHADJ relocation must be paired with a R_MIPS_PICBASE relocation.
173	Fatal Error section xxxx starting at #### didn't fit in configured memory A section is declared with SECTIONS directive at a specific memory location that does not place it in any of the configured blocks of memory declared with the MEMORY directive. If the target has available memory there, then declare a MEMORY block to represent it, otherwise move the section's starting address to within a valid region of memory. Example: MEMORY { block_one : ORIGIN=0x1000, LENGTH=0x1000 } SECTIONS { dummy 0x3000 : } Correct: MEMORY { block_one : ORIGIN=0x1000, LENGTH=0x1000 } SECTIONS { dummy 0x1000 : }

174	<p>Fatal Error</p> <p>unknown ARM pool reference instruction: ##### in module xxxx at xxxx+####</p> <p>ARM specific. An ARM pool relocation is located at an instruction that does not disassemble as any known pool instruction.</p>
175	<p>Non-Fatal Error</p> <p>Bad relocation sequence. REL R_MIPS_HI0 relocation is expected to be followed by REL R_MIPS_LO16, or R_IPAIR relocation</p> <p>MIPS specific. An R_MIPS_HI0 relocation is expected to be paired with another relocation, but is not. This can possibly be worked around with -gnu_compat.</p>
176	<p>Fatal Error</p> <p>module xxxx has Virtualization/Hardware Multiple Task Thread instructions but a previous module might have been a RH850G3K core</p> <p>RH850 specific. Not all object files were compiled for compatible CPU types. Compile all files with the same CPU option.</p>
177	<p>Fatal Error</p> <p>PPC: Illegal R_PPC_EMB_BIT_FLD addend form</p> <p>PowerPC specific. An R_PPC_EMB_BIT_FLD relocation has an invalid addend value.</p>
178	<p>Fatal Error</p> <p>Insufficient additional SDA registers provided</p> <p>PowerPC specific. There is too much data put in SDA sections to fit within their range limits. Either fewer variables need to be placed in SDA, or additional registers must be allocated to offset the expanded SDA area. You can use the -additional_sda_reg=N option to reserve more registers.</p>
179	<p>Fatal Error</p> <p>.Internal error: no function symbol to jump to after .opd adjustments</p>
180	<p>Non-Fatal Error</p> <p>Bad relocation sequence. REL R_MIPS_HI16 relocation is expected to be followed by REL R_MIPS_LO16, or R_IPAIR relocation</p> <p>MIPS specific. An R_MIPS_HI16 relocation is expected to be paired with another relocation, but is not. This can possibly be worked around with -gnu_compat.</p>

181	Fatal Error Intercall patching not supported for function entry/exit history ARM specific. A <code>__ghs_log_fee</code> function is in a different execution mode than the caller on a target that cannot switch modes without an intercall veneer. This combination of options is not supported. Compile this FEE instrumented code in ARM mode.
182	Fatal Error PPC: Unknown section for relocation to <code>xxxx</code> from <code>xxxx + ####</code>
183	Fatal Error Cannot change ISA mode with <code>j xxxx</code> at <code>xxxx+####</code> MIPS specific. There is a relocation from a function in non-MIPS16 mode to a function in MIPS16 mode for an instruction that is not capable of switching modes automatically.
184	Non-Fatal Error Bad relocation sequence. <code>REL R_MICROMIPS_HI0</code> relocation is expected to be followed by <code>REL R_MICROMIPS_LO16</code> , or <code>R_IPAIR</code> relocation MIPS specific. An <code>R_MICROMIPS_HI0</code> relocation is expected to be paired with another relocation, but is not. This can possibly be worked around with <code>-gnu_compat</code> .
186	Fatal Error Not in the same region with <code>bgezal xxxx</code> at <code>xxxx+####</code> MIPS specific. There is a relocation from a function in non-MIPS16 mode to a function in MIPS16 mode that cannot be fixed because it spans across different memory regions.
187	Fatal Error module <code>xxxx</code> is a RH850G3K core but a previous module might have Virtualization/Hardware Multiple Task Thread instructions RH850 specific. Not all object files were compiled for compatible CPU types. Compile all files with the same CPU option.
188	Fatal Error Attempt to change the address of section " <code>xxxx</code> " which was already used in a relocation; maybe this section's address depends on the size of a CROM section

189	Fatal Error Encountered unknown relocation type (####) in module xxxx MIPS specific. Unhandled relocation. This object file may be generated by a toolchain that is newer than or not supported by this linker version.
190	Fatal Error .Cannot switch ISA in PIC mode with branch to xxxx at xxxx+#### MIPS specific. There is a relocation from a function in non-MIPS16 mode to a function in MIPS16 mode that cannot be fixed when using the -pic option.
191	Fatal Error .toc section does not exist PowerPC64 specific. There are PPC64 TOC relocations present, but the section map does not contain a .toc section. Declare a .toc section in linker directive file.
192	Fatal Error Cannot switch ISA with conditional branch to xxxx at xxxx+#### MIPS specific. There is a relocation from a function in non-MIPS16 mode to a function in MIPS16 mode for an instruction that is not capable of switching modes automatically.
193	Fatal Error Expected 'nop' instruction after PC-relative relocation from xxxx [xxxx] to xxxx PowerPC64 specific. An out of range PPC64 TOC call does not have an expected NOP instruction to use during far call expansion.
194	Fatal Error .unknown THUMB2 pool reference instruction: #### in module xxxx at xxxx+#### ARM specific. An Thumb-2 pool relocation is located at an instruction that does not disassemble as any known pool instruction.
195	Fatal Error failed to convert SDA23 to SDA16 at xxxx (####) V800 specific. There is a 23-bit SDA relocation associated with an unrecognized type of instruction. Workaround by disabling the -shorten_loads and -shorten_moves optimizations.

196	Fatal Error Unexpected relocation kind (####) from a function descriptor xxxx [xxxx] to function xxxx PowerPC64 specific. Unexpected PPC64 TOC function relocation type in .opd section.
197	Non-Fatal Error Bad relocation sequence. REL R_MICROMIPS_HI16 relocation is expected to be followed by REL R_MICROMIPS_LO16, or R_IPAIR relocation MIPS specific. An R_MICROMIPS_HI16 relocation is expected to be paired with another relocation, but is not. This can possibly be worked around with -gnu_compat .
198	Fatal Error ARM: section xxxx in module xxxx is too large to insert a farcall patch for function xxxx ARM specific. Linker far call patching failed because this module is larger than the maximum range of a non-far call. Read documentation on far calls for possible alternatives to linker far call patching.
199	Fatal Error unsigned range: while relocating xxxx+#### to xxxx (type=####), #### wasn't 1-extended in #### to #### bits NDR specific. Relocation destination value not properly extended.

Errors 200 to 299

200	Fatal Error __gp is not set MIPS specific. The .sdatabase section is not defined. Declare it in your linker directive file.
201	Fatal Error Relocation of type R_MIPS_PICLOW encountered without a preceding R_MIPS_PICBASE MIPS specific. An R_MIPS_PICLOW relocation must be paired with a R_MIPS_PICBASE relocation.
203	Fatal Error don't know how to extract addend for relocation #### Unhandled relocation in a REL relocation section. This object may have been compiled by a non-GHS toolchain that is not supported by this linker.

204	Fatal Error Saw unexpected xxxx in xxxx (####), relink with <code>-no_remove_pid</code> to avoid error V850 specific. A PID relocation was associated with an unexpected instruction type. Pass <code>-no_remove_pid</code> as a workaround.
205	Fatal Error can't extract relocation #### Unhandled relocation in a REL relocation section. This object may have been compiled by a non-GHS toolchain that is not supported by this linker.
206	Warning The program contains no reference to <code>_dtors</code> . The following C++ dynamic destruction routines will probably not get called: xxxx
207	Warning ignoring <code>..fend</code> symbol before end of function xxxx
208	Warning Symbol xxxx has size 0
209	Warning .Error in parsing the MISRA option
210	Warning .Coverage section deletion failed -- unequal number of entries in xxxx and xxxx sections
211	Warning .-ignore_debug_references is not supported for SH, ignoring...
212	Warning Unable to instrument function xxxx
213	Warning Unexpected instruction #### with xxxx relocation
214	Warning Option <code>-extractall=xxxx</code> was ignored, since option xxxx was not given
215	Warning function: xxxx called in xxxx doesn't have an argument type checking declaration

216	Warning Absolute relocation xxxx to function: from 'xxxx [xxxx]' to 'xxxx [xxxx]'
217	Warning the checksum word on section xxxx overlaps section xxxx; removing checksum on xxxx to avoid overlap
218	Warning TraceEdge unable to find .sdata2/.sdabase section in SDA mode
219	Warning shared library xxxx does not support TDEH exception handling. Refer to the MULTI release notes for instructions on how to build shared libraries with TDEH support
220	Warning .BLOCK directive has no effect
221	Warning .no section map present. Assuming .text/.data/.bss use -T[text data bss] to set segment starts and avoid this warning use a section map for advanced placement control
222	Warning The program contains no reference to _ctors. The following C++ dynamic initialization routines will probably not get called: xxxx
223	Warning not defining xxxx: xxxx already exists in xxxx
224	Warning -ignore_debug_references is not supported for Blackfin, ignoring...
225	Warning ARM mapping symbols not found in section xxxx, module xxxx
226	Warning .SHT_GROUP section #### has relocations! ignoring...
227	Warning translating COFF file xxxx

228	Warning .sdata and .sbss are not contiguous in the section map; AutoSDA will not place anything into .sbss
229	Warning .sdatabase section should be located at address zero for -assume_gbr_is_zero
230	Warning Unknown Pool Load
231	Warning symbol xxxx in section xxxx was referenced as SDA at xxxx+#### but is out of range of the SDA base pointer
232	Warning Function deletion should not be performed on object files with position-independent code that were built with older versions of the compiler. Please rebuild with a newer compiler or disable function deletion
233	Warning Weak xxxx xxxx in xxxx overrides an equally weak definition in xxxx
234	Warning Section xxxx at #### extends past 0
235	Warning ignored -T[text data bss] due to section map
236	Warning INTEGRITY interrupt routine does not have requisite padding: xxxx
237	Warning section xxxx(xxxx) is not being included; module xxxx is not part of this link
238	Warning Writeable section xxxx at #### liesxxxx between __ghs_romstart and __ghs_romend
239	Warning xxxx will not be satisfied for -dyload links

240	Warning ignoring size-#### ..fend symbol inconsistent with end of function xxxx
241	Warning Layout of section xxxx does not converge on fixed address
242	Warning .branch instruction has unknown condition bits
243	Warning Unable to find map file, disabling CodeFactor profile feedback
244	Warning Use of the special symbol __ghssizexxxx in -pic or -pid mode may produce incorrect results. Consider using (__ghsendxxxx - __ghsbeginxxxx) instead
245	Warning .section xxxx(xxxx) is not being included; did you mean xxxx(xxxx)?
246	Warning Did not find .callt section in linkmap. Enabling -v800_old_callt compatibility mode. See documentation on this option for more details
247	Warning .script file xxxx included multiple times
248	Warning -no_shared_lib_symbols should not be used when linking with shared libraries
249	Warning Function deletion should not be performed on object files with position-independent code that were built with older versions of the compiler. Please rebuild with a newer compiler or disable function deletion
250	Warning .Unexpected instruction #### with R_MICROMIPS_26_S1 relocation
251	Warning unknown attributes for MEMORY block xxxx: xxxx

252	Warning ARM mapping symbols not found for function xxxx, in section xxxx, module xxxx
253	Warning .section xxxx in module xxxx has unrecognized setting: name=xxxx, id=0x####, value=0x####
254	Warning relocation section #### has relocations! ignoring...
255	Warning Invalid setting for Program Counter valid bits with xxxx. Setting ignored
256	Warning .in module xxxx, section symbol ##### for section xxxx has a non-zero value. Attempting to fix and continue
257	Warning .symbol xxxx in section xxxx was referenced as ZDA at xxxx+#### but is out of range of the ZDA base pointer
258	Warning Patched reference to subroutine xxxx
259	Warning Error in parsing the MISRA option: Invalid range
260	Warning .TraceEdge has failed to fully instrument xxxx. Trace from this interrupt will be slightly limited
261	Warning .branch to self detected: module xxxx at xxxx+####
262	Warning cannot redirect stderr to xxxx
263	Warning SUBALIGN has no effect. ELF section header specifies alignment
264	Warning symbol xxxx in section xxxx was referenced as SDA at xxxx+#### but is out of range of 9-bit displacement from the SDA base pointer

265	Warning archive xxxx contains a bad string table reference (module name) at offset ####, recovering
266	Warning Unable to ignore instrumentation for function xxxx when instrumenting the kernel
267	Warning checksum generation suppressed with relocatable link
268	Warning size of symbol xxxx is inconsistent with location of function xxxx
269	Warning Invalid map file, disabling CodeFactor profile feedback
270	Warning section xxxx(xxxx) is not being included; section xxxx appears to be empty
271	Warning maplines must be at least 5; ignoring -maplines=####
272	Warning ignoring malformed option xxxx; try xxxx instead
273	Warning ARM: unknown postamble in xxxx: ####
274	Warning symbol xxxx in section xxxx was referenced as ZDA at xxxx+#### but is out of range of 9-bit displacement from the ZDA base pointer
275	Warning unrecognized option: xxxx
276	Warning setting start address to zero
277	Warning xxxx generation not supported with CROM(xxxx)

278	Warning orphan area at xxxx(xxxx)+####, nearest was xxxx at offset ####
279	Warning unknown machine type: ####
280	Warning this target doesn't support farcall patching
281	Warning module xxxx contains relocations versus SHT_NOBITS section xxxx
282	Warning Unknown MISRA option
283	Warning .section xxxx from xxxx isn't included by the section map; appending after last section. add to section map or use -append to append without warning
284	Warning ignoring ..fbeg symbol after start of function xxxx
285	Warning Truncating the value of xxxx to 32 bits
286	Warning Section flags do not match known section name - assuming SDA type by name - for section xxxx xxxx
287	Warning Can't inline patch out of range jump to symbol with st_type != STT_FUNC
288	Warning unable to determine if absolute symbol: xxxx will work as the target of an intercall
289	Warning couldn't adjust REL-type relocation (rel#####)!
290	Warning found relocation into middle of now-defunct function xxxx xxxx

291	Warning Unable to open profile information, disabling CodeFactor profile feedback
293	Warning symbol xxxx has different sizes in: xxxx xxxx
294	Warning symbol xxxx has different types in: xxxx xxxx
295	Warning [InMem TimeMachine] Unable to locate .inmemtm section Appending .inmemtm section with size ####KB
296	Warning Option -extractonce=xxxx was ignored, since option xxxx was not given
297	Warning module xxxx not compiled for use with -auto_sda
298	Warning ABS32 relocation mapping not defined
299	Warning Unrecognized relocation attached to symbol xxxx (xxxx) in func

Errors 300 to 399

300	Warning .using subroutine symbol xxxx to patch references to deleted function
301	Warning .[codefactor]: skipping module xxxx. xxxx
302	Warning No functions found
303	Warning .non-debug symbol at end of section
304	Warning couldn't trace through pool relocation

305	Warning .Unrecognized relocation
306	Warning .pool data is 0x0. is it really data?
307	Warning Unrecognized relocation attached to symbol xxxx (xxxx) in block
308	Warning .deleted symbol has relocation refs
309	Non-Fatal Error .unknown relocation type (xxxx) in xxxx
310	Fatal Error section xxxx (####-####) doesn't fit in memory block xxxx (####-####)xxxx
311	Fatal Error corrupt string table reference for section #### in xxxx
312	Warning archive xxxx contains a bad string table reference (module name) at offset ####, recovering
313	Warning library xxxx has a bad header at position ####, entry: xxxx
314	Warning Symbol xxxx in module xxxx has a .fixaddr entry, but points to symbol xxxx which has an absolute address. This value may not be loaded properly at run time. Pass -delete_absolute_fixaddrs to the linker to fix this issue
315	Warning .module xxxx was compiled for xxxx but previous modules were compiled for xxxx
316	Warning section xxxx is at a high address (#### - ####) that is out of range of the ####-bit Program Counter
317	Warning module xxxx was compiled with 8-byte stack alignment but previous modules may not have been

318	Fatal Error The program cannot be instrumented because of a non-local branch with no relocation, in function xxxx The compiler or assembler that produced that object file may not be compatible with -inmemtm. Turn off -inmemtm and run the linker again
319	Fatal Error .The offset is too large to insert a farcall patch from xxxx (####) to xxxx (####) in module xxxx
320	Warning module xxxx may have been compiled with 4-byte stack alignment but previous modules were compiled with explicit 8-byte stack alignment
321	Warning couldn't adjust REL-type relocation: Offset: #### Type: #### Adjust: #### Dest Sym: xxxx in module xxxx
322	Warning patching out of range relocation from xxxx (####) to xxxx (####) in module xxxx
323	Warning Will not adjust section-relative relocation in file xxxx at location xxxx+#### that references section xxxx+#### relocation type: xxxxxxxx
346	Fatal Error PLT entry for xxxx does not have corresponding .dynsym entry
349	Fatal Error invalid .ghsinfo jtable size
350	Fatal Error relocation at xxxx:xxxx+#### is outside of that section
352	Fatal Error Unknown vtbl parent: xxxx
353	Fatal Error some modules compiled with options unsafe for use with elxr
354	Fatal Error .ghsinfo jtable out of sync

355	Fatal Error Symbol 'xxxx' in module 'xxxx' is not located within executable section 'xxxx'
357	Fatal Error Unknown vtbl class: xxxx
368	Fatal Error corrupt symbol table in xxxx
370	Fatal Error too many sections defined. At most #### supported
373	Fatal Error .Cortex-A8 branch errata patching failure
375	Non-Fatal Error section mismatch patching far-call to function xxxx
378	Fatal Error bad relocation in module xxxx, references non-existent symbol ####
379	Fatal Error Section too large for Cortex-A8 branch errata patching
384	Fatal Error Sister vtbl entry was found!
388	Fatal Error File error while writing binary; out of disk space?
392	Fatal Error Bad sentinel value in UVFD section: ####
394	Fatal Error bad elf file (sections): xxxx
396	Fatal Error Unknown vtbl sym in readRoutSection(): xxxx
397	Fatal Error inconsistent .fixaddr/.fixtype sections in xxxx
399	Fatal Error relocation at xxxx:xxxx+#### is outside of that section

Errors 400 to 499

400	Non-Fatal Error Adjustment for j/jal/jalx offset too large
401	Non-Fatal Error Function entry/exit history farcall patching not supported in THUMB mode
402	Non-Fatal Error Unknown opcode for TDA relocation: ####
403	Non-Fatal Error Mapping symbol xxxx does not indicate Arm/Thumb region
404	Non-Fatal Error .Loop detected attempting to patch call to VLE function xxxx
405	Non-Fatal Error .ghpepatch[xxxx] (@ ####): type = ####
406	Non-Fatal Error .ghpepatch[xxxx] (@ ####): size = ####
407	Non-Fatal Error Call table module xxxx not found
408	Non-Fatal Error Bad relocation sequence. REL R_MIPS_GHS_PIDHIGHADJ relocation is expected to be followed by REL R_MIPS_GHS_PIDLOW, or R_IPAIR relocation
409	Non-Fatal Error Failed to relocate data in TDA segment: address #### is out of range. (symbol xxxx, offset ####, addend ####)
410	Non-Fatal Error malformed xxxx section in module xxxx
411	Non-Fatal Error File error opening map file xxxx; skipping map file
412	Non-Fatal Error unresolved symbols: #### xxxx
413	Non-Fatal Error -traceedge_size must be power of 2

414	Non-Fatal Error usage: -traceedge_size=hexsize, 0 < hexsize <= 0x10000
415	Non-Fatal Error Call table symbol xxxx not defined
416	Non-Fatal Error Function xxxx called from a no-TDA function in xxxx
417	Non-Fatal Error cannot determine type of undefined function xxxx
418	Non-Fatal Error ARM mapping symbols do not cover the address range of the section xxxx in module xxxx
419	Non-Fatal Error .Loop detected attempting to patch far-call to function xxxx
420	Non-Fatal Error Attempting to extract .rel relocation addend from non .rel section
421	Non-Fatal Error Attempt to link module (xxxx) compiled with -notda against a module (xxxx) that uses the TDA
422	Non-Fatal Error Bad relocation sequence. REL R_MICROMIPS_GHS_PIDHIGHADJ relocation is expected to be followed by REL R_MICROMIPS_GHS_PIDLOW
423	Non-Fatal Error no global symbol for xxxx(xxxx)+####, local sym was xxxx
424	Non-Fatal Error did not find lsetup fixing R_NISA_LSETUP
425	Non-Fatal Error File error opening whitelist file xxxx; skipping whitelist
426	Non-Fatal Error Module xxxx was compiled with TDA disabled but we are linking in MTDA mode

427	Non-Fatal Error Could not find .dynsym entry for xxxx
428	Non-Fatal Error -no_data_in_text is not supported for -pic
429	Non-Fatal Error section xxxx from xxxx isn't included by the section map! add to section map or remove option -no_append
430	Non-Fatal Error section symbol xxxx has non-zero st_value
431	Non-Fatal Error -no_data_in_text is only supported on Thumb2 capable targets
432	Non-Fatal Error usage: -traceedge_reg=R, for some gprR
433	Non-Fatal Error Invalid instruction for R_ARM_ALU_PCREL relocation
434	Non-Fatal Error patching to undefined symbols only supported with --integrity_posix_dll
435	Non-Fatal Error malformed SHT_NOTE section xxxx in module xxxx
436	Non-Fatal Error can't intercall_patch undefined symbol: xxxx
437	Non-Fatal Error MISRA xxxx recommends that objects be declared at function scope whenever possible
438	Non-Fatal Error .bad thumb BLxxxx relocation in module xxxx: got #### ####
439	Non-Fatal Error Section xxxx moved as a result of compression and is not a ROM copy
440	Non-Fatal Error MISRA xxxx recommends that objects declared at file scope be static whenever possible

441	Non-Fatal Error .usage: -traceedge_addr=hexaddr
442	Non-Fatal Error R_V800_CFPICREL32 relocation without matching R_V800_PICBASE
443	Non-Fatal Error alias symbols have differing subcpu types: xxxx, xxxx
444	Non-Fatal Error Unmatched TDA call to function xxxx in xxxx
445	Non-Fatal Error common xxxx in xxxx has unsupported alignment: ###
446	Non-Fatal Error -no_data_in_text is not supported with INTEGRITY TimeMachine
447	Non-Fatal Error Cross-TDA call to function xxxx from TDA xxxx in xxxx
448	Non-Fatal Error TDEH section deletion failed
449	Non-Fatal Error .ambiguous local symbol xxxx multiply defined in: xxxx xxxx
450	Non-Fatal Error couldn't process option xxxx
451	Non-Fatal Error File error opening graph file xxxx; skipping call graph
452	Non-Fatal Error .ghpepatch[xxxx] (@ ####): flags = ####
453	Non-Fatal Error -no_data_in_text is not supported in THUMB mode
454	Non-Fatal Error Absolute or PC-relative relocation was expected to shared weak symbol xxxx

455	Non-Fatal Error Module xxxx contains a virtual function call to offset #### in the vtable for class xxxx, but the vtable for xxxx (defined in xxxx) does not contain an entry at that offset. The UVFD optimization cannot be performed. Pass -no_uvfd to continue
456	Non-Fatal Error .Unexpected R_ARM_REL32 relocation found in optimized module
457	Non-Fatal Error .-no_data_in_text is not supported on -pic
458	Non-Fatal Error .ghpepatch[xxxx] (@ ####): PC == 0
459	Non-Fatal Error Attempt to apply 32-bit relocations in 64-bit program
460	Fatal Error in expression syntax: "xxxx" expected #### arguments
461	Fatal Error globalreg count too large
462	Fatal Error store instrumentation expected
463	Non-Fatal Error read-only small data overflow: #### (signed) didn't fit in 16 bits, and could not be patched because the instruction or base register was not recognizedxxxx
464	Fatal Error error() xxxx
465	Non-Fatal Error xxxx: ####xxxx didn't fit in #### bits
466	Non-Fatal Error ROSDA relocation encountered when ROSDA has been disabled
467	Non-Fatal Error zero data overflow: #### (signed) didn't fit in 16 bits, and could not be patched because the instruction or base register was not recognized

468	Non-Fatal Error zero data overflow: #### (signed) didn't fit in 23 bits, and could not be patched because the instruction or base register was not recognizedxxxx
469	Fatal Error ABSOLUTE used outside of a section
470	Fatal Error expected an expression after 'xxxx'
471	Non-Fatal Error Cannot jump/call next instruction
472	Non-Fatal Error read-only small data overflow: #### (signed) didn't fit in 23 bits, and could not be patched because the instruction or base register was not recognized
473	Fatal Error expected an expression
474	Non-Fatal Error read-only small data overflow: #### (signed) didn't fit in 16 bits, and could not be patched because the instruction or base register was not recognized
475	Fatal Error expected ')' '
476	Fatal Error unknown section xxxx used in SIZEOF
477	Fatal Error unterminated comment
478	Non-Fatal Error unaligned: #### wasn't ####-byte aligned xxxx
479	Fatal Error the argument to PROVIDE should be an assignment operation
480	Fatal Error during eval: symbol xxxx doesn't exist

481	Non-Fatal Error Table call relocation (R_V800_CALLT) without a table entry. Missing <code>__ghs_call_table</code> symbol?
482	Non-Fatal Error small data overflow: ##### (signed) didn't fit in 16 bits, and could not be patched because the instruction or base register was not recognized
483	Fatal Error expected ')' for 'xxxx'
484	Fatal Error unknown section xxxx used in ENDADDR
485	Fatal Error PHY is not supported. Remove the directive to avoid this error
486	Non-Fatal Error Out of range. Not suitable for call table
487	Warning Alignment expression must be a power of two
488	Fatal Error saw branch in between function entry and first start of basic block
489	Non-Fatal Error read-only small data overflow: ##### (signed) didn't fit in 23 bits, and could not be patched because the instruction or base register was not recognizedxxxx
490	Non-Fatal Error Overflow. CALLT table is full
491	Fatal Error expected an argument to 'xxxx'
492	Non-Fatal Error small data overflow: ##### (signed) didn't fit in 23 bits, and could not be patched because the instruction or base register was not recognizedxxxx
493	Fatal Error cannot assign to constant 'xxxx'

494	Fatal Error volatile load instrumentation with no load
495	Fatal Error unbounded string 'xxxx'
496	Fatal Error expected something after xxxx
497	Warning Alignment expression must be a power of two; changing from #### to ####.xxxx
498	Non-Fatal Error Relocation not safe to be performed in shared code as it depends on core-specific initialization
499	Non-Fatal Error small data overflow: #### (signed) didn't fit in 23 bits, and could not be patched because the instruction or base register was not recognized

Errors 500 to 599

500	Fatal Error xxxx at #### size ####: xxxx
501	Non-Fatal Error zero data overflow: #### (signed) didn't fit in 23 bits, and could not be patched because the instruction or base register was not recognized
502	Fatal Error unknown section xxxx used in ADDR
503	Fatal Error expected ':' after conditional expression
504	Fatal Error unknown section xxxx used in ALIGNOF
505	Fatal Error Expected same block after inst

506	Warning expression ignored for GNU linkmap generation
507	Fatal Error while processing xxxx, expected 'xxxx'
508	Fatal Error PACK_OR_ALIGN used outside of a section
509	Fatal Error start of function expected
510	Fatal Error dot was decremented in xxxx, from #### to ####
511	Warning construct xxxx ignored for GNU linkmap generation
512	Fatal Error expected expression after '('
513	Non-Fatal Error Table call destination precedes call table
514	Warning Alignment expression must be a power of two
515	Fatal Error .start of basic block expected
516	Fatal Error end of function without stack exit
517	Fatal Error No instruction after inst
518	Fatal Error memory segment xxxx not defined
519	Fatal Error .expected an identifier
520	Non-Fatal Error small data overflow: #### (signed) didn't fit in 16 bits, and could not be patched because the instruction or base register was not recognizedxxxx

521	Non-Fatal Error jump table entry overflow in function xxxx in module xxxx at offset ##### Please try recompiling with -bigswitch
522	Warning .multiply destination registers cannot be the same in function xxxx in module xxxx at offset ##### => xxxx
523	Fatal Error jump table entry invalid in function xxxx in module xxxx at offset #####
524	Non-Fatal Error ####-bit branch is out of range in function xxxx in module xxxx at offset ##### => xxxx
525	Warning multiply high destination register cannot be r0 in function xxxx in module xxxx at offset ##### => xxxx
526	Warning A branch becomes out of range by -fix_load_errata and has been expanded in function xxxx in module xxxx at offset ##### => xxxx
527	Fatal Error callt call to absolute index number in function xxxx in module xxxx at offset ##### => xxxx Re-link with -v800_old_callt to avoid this error. See documentation on this option for more details
528	Warning .Axxxx branch is followed by a load in function xxxx in module xxxx at offset ##### => xxxx / xxxxxxxx
529	Warning callt call to absolute index number in function xxxx in module xxxx at offset ##### => xxxx Enabling -v800_old_callt compatibility mode. See documentation on this option for more details
530	Non-Fatal Error .Unknown relocation type xxxx
531	Warning PowerPC hazard found in function xxxx in module xxxx at offset ##### => xxxx xxxx

532	Non-Fatal Error xxxx incompatible with -record_timemachine, rebuild with -gen_timemachine
533	Non-Fatal Error intercall from xxxx in module xxxx to xxxx cannot be patched
534	Non-Fatal Error tracereg not always reserved in instrumented object xxxx
535	Non-Fatal Error .calling convention mismatch for function xxxx: declared as xxxx in xxxx, called as xxxx in xxxx
536	Non-Fatal Error Section xxxx overlaps section xxxx
537	Non-Fatal Error Memory region xxxx overlaps region xxxx
538	Non-Fatal Error In-Memory TimeMachine Warning In function xxxx at offset #### Unable to create instrumentation instruction
539	Non-Fatal Error .symbol xxxx multiply defined in: xxxx xxxx
540	Non-Fatal Error found fastcc and cdecl definitions for xxxx in: xxxx xxxx
541	Non-Fatal Error entry symbol xxxx is undefined
542	Warning entry symbol xxxx is undefined (allowed)
543	Non-Fatal Error symbol xxxx is defined in xxxx and provided in xxxx; pass -overridden_absolute_allow to silence this message
545	Non-Fatal Error bad argument types for function: declared as xxxx in xxxx, called as xxxx in xxxx
546	Warning In OR/LOAD/XOR sequence, only OR can be branch destination

547	Warning .LWC1 cannot be used. Please expand it to LW/MTC1
548	Warning .R1 is used illegally in this instruction
549	Warning .The destination register of the next instruction is the same as the base register of this instruction
550	Warning .In LOAD/GSTM sequence, LOAD destination must match GSTM source
551	Warning .Branch/jump must be to labeled address
552	Warning .Load should not be in delay slot
553	Warning .Only JALR is allowed for calls through a register
554	Warning .In LDC1/FSTM sequence, the instruction following FSTM must be aligned to 4 mod 8 by 'xor r0, r0, r0'
555	Warning .The destination register of this load instruction is the same as the base register. Please expand it into LOAD/XOR
556	Warning .Branch destination must be aligned to 8 bytes
557	Warning .JAXA hazard found with section xxxx in module xxxx Executable section contains no functions. Please verify that this is correct
558	Warning .In LOAD/GSTM sequence, only LOAD can be branch destination
559	Warning .JAXA hazard found with section xxxx in module xxxx at offset ####, size #### => Untyped, non-padding data in assembly module. Please check that this is not supposed to be a function, and use both .type and .size directives

560	Warning .An index load instruction must be followed by 'bne r0, r0, .+4'
561	Warning .OR/LDR/XOR must be aligned to 8 bytes
562	Warning .And-link instruction requires 'xori r31, r31, 4' in the delay slot
563	Warning .JAXA hazard found with section xxxx in module xxxx Cannot verify alignments mod 8, because section alignment is ###
564	Warning The next instruction is the destination of a branch
565	Warning .The next instruction is not a Basic load nor LDC1 with #offset(Rbase) operand
566	Warning .This instruction must be aligned to 4 mod 8 by 'xor r0, r0, r0'
567	Warning .In LW/MTC1 sequence, MTC1 must be aligned to 4 mod 8 by 'xor r0, r0, r0'
568	Warning .NOP must be in the delay slot
569	Warning .The next instruction is a branch destination
570	Warning .Load instruction may not appear at end of function
571	Warning .This unaligned load instruction is in bad sequence. Please expand it into OR/LOAD/XOR
572	Warning .This instruction is prohibited
573	Warning .Only JR r31 is allowed for subroutine return

574	Warning .In LDC1/FSTM sequence, only LDC1 can be branch destination
575	Warning .The next instruction is not a load with #offset(Rbase) operand
576	Warning .In LW/MTC1 sequence, only LW can be branch destination
577	Fatal Error .wrong number of symbols read from section #### in xxxx
578	Warning Delay slot expected for this instruction at end of function
579	Warning .In LOAD/XOR sequence, only LOAD can be branch destination
580	Non-Fatal Error .MISRA xxxx: Function xxxx:xxxx is recursive
581	Non-Fatal Error MISRA 2004 Rule xxxx forbids the use of "xxxx"
582	Warning MISRA xxxx: Global variable xxxx:xxxx is referenced only from function xxxx:xxxx
583	Non-Fatal Error MISRA xxxx: The following global symbols share a 31-character prefix:
584	Warning MISRA xxxx: Global xxxx xxxx:xxxx is referenced only from module xxxx
585	Non-Fatal Error MISRA xxxx: Common symbol xxxx in xxxx is overridden by a definition in xxxx
586	Non-Fatal Error MISRA Rule #### forbids the use of "xxxx"
587	Warning bad type for variable: defined as 'xxxx' in xxxx, used as 'xxxx' in xxxx

588	Non-Fatal Error Unexpected character 'xxxx' in variable type-checking symbol 'xxxx'
589	Fatal Error expected -globalcheck=none normal full
590	Warning variable: 'xxxx' used in xxxx doesn't have a type checking declaration
591	Warning Bad relocation sequence. R_MIPS_32 or R_MIPS_16 expected after R_MIPS_GHS_SUBPAIR. Got xxxx instead
592	Warning individual section xxxx from xxxx contains symbol xxxx which does not match the individual section's symbol name
593	Fatal Error couldn't open file xxxx
595	Warning Global register written in kernel function: xxxx + #### (xxxx)
596	Non-Fatal Error Global register written in non-kernel function: xxxx + #### (xxxx)
597	Non-Fatal Error File error opening blacklist file xxxx; skipping blacklist
598	Non-Fatal Error Blacklisted symbol xxxx defined in module xxxx
599	Non-Fatal Error Blacklisted symbol xxxx referenced by module xxxx

Errors 600 to 699

600	Non-Fatal Error INTEGRITY TimeMachine does not support Thumb function:
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601	Non-Fatal Error Thumb mode cannot be used in this context
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Chapter 3

Assembler Error Messages

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This chapter lists error messages that you may encounter when assembling code, listed by error number. Diagnostic message numbers will only appear for Power Architecture, ARM, V850, and TriCore targets.

Assembler Error Message Codes

The following list contains all the assembler error messages:

Errors 1 to 99

1	Fatal Error Unrecognized option 'xxxx'
2	Fatal Error COFF not supported for this configuration
3	Fatal Error .Option 'xxxx' requires an argument of the form oldsect=newsect
4	Fatal Error Invalid argument xxxx
5	Fatal Error A source file must be specified
6	Fatal Error .The assembler -globalreg check is not compatible with -tracereg
7	Fatal Error .Invalid syntax for option 'xxxx'
8	Fatal Error Argument xxxx too large
9	Fatal Error diagnostic xxxx cannot be demoted to a warning
10	Fatal Error xxxx is an invalid diagnostic number
11	Fatal Error diagnostic xxxx cannot be suppressed

12	Fatal Error out of memory
13	Fatal Error syntax error
14	Fatal Error constant required
15	Fatal Error instruction not 16-bit aligned
16	Fatal Error instruction not 32-bit aligned
17	Fatal Error expected register r0-r7 or r24-r31
18	Fatal Error use of global register
19	Fatal Error displacement not 16-bit aligned
20	Fatal Error expected floating point register
21	Fatal Error expected condition register
22	Warning VLE instruction in section not declared with "v" flag
23	Fatal Error .expected register
25	Fatal Error expected constant
26	Fatal Error constant cannot be expressed as simple bitfield
27	Fatal Error expected ', '

28	Fatal Error expected special purpose register
29	Fatal Error displacement not 32-bit aligned
30	Fatal Error expected vector register
31	Fatal Error expected register r8-r23
32	Fatal Error displacement must be in [-256,255]
33	Fatal Error constant must be in [0,31]
34	Fatal Error displacement must be in [-32768,32767]
35	Fatal Error expected displacement
36	Fatal Error constant must be in [0,2]
37	Fatal Error n must be in [0,63]
38	Fatal Error b must be in [0,63]
39	Fatal Error constant must be in [-16,15]
40	Fatal Error cannot branch this far
41	Fatal Error (b+n) must be in [0,64]
42	Fatal Error offset must be multiple of 4

43	Fatal Error constant must be in [0,63]
44	Fatal Error Internal assembler error
45	Non-Fatal Error value not properly sign extended
46	Fatal Error offset must be multiple of 8
47	Fatal Error offset must be in [0,15])
48	Fatal Error offset not word aligned
49	Fatal Error offset must be multiple of 2
50	Fatal Error offset must be in [-8192,8191]
51	Fatal Error offset must be multiple of 4 and in [0,124]
52	Fatal Error illegal VLE relocation
53	Fatal Error constant must be in [1,64]
54	Fatal Error expected base register r0-r7 or r24-r31
55	Fatal Error offset must be in [0,30]
56	Fatal Error constant must be in [0,3]
57	Fatal Error offset must be multiple of 2 and in [0,62]

58	Fatal Error expected TB or TBU
59	Fatal Error offset not double aligned
60	Fatal Error (b-n) must be in [0,31]
61	Fatal Error offset not half-word aligned
62	Fatal Error expected condition register cr0-3 only
63	Fatal Error b-n must be in [0,63]
64	Fatal Error constant must be in [0,64]
65	Fatal Error n must be in [0,32]
66	Fatal Error n must be in [1,32]
67	Fatal Error constant must be in [0,255]
68	Fatal Error la without .using
69	Fatal Error b+n must be in [0,63]
70	Fatal Error illegal relocation
71	Fatal Error n must be in [0,31]
72	Fatal Error expected segment register

73	Fatal Error n must be in [0,64]
74	Fatal Error constant must be in [-32768,65535]
75	Fatal Error constant must be in [0,4]
76	Fatal Error expected address
77	Fatal Error constant must be 0 or 1
78	Fatal Error constant must be in [-32767,32768]
79	Fatal Error constant must be in [0,7]
80	Fatal Error offset must be in [-2048,2047]
81	Fatal Error expected 0 or 1
82	Fatal Error constant must be in [0,15]
83	Fatal Error (b+n) must be in [0,31]
84	Fatal Error offset must be in [-32768,32767]
85	Fatal Error expected TB (268) or TBU (269)
86	Fatal Error offset must be multiple of 8 and in [0,248]
87	Fatal Error Illegal TH value

88	Fatal Error offset must be in [0,60]
89	Fatal Error b must be in [0,31]
90	Fatal Error L=1 invalid for 32-bit implementation
91	Fatal Error offset must be in [-128,127]
92	Fatal Error expected 16-bit signed immediate
93	Fatal Error expected SCI8 formatted immediate
94	Non-Fatal Error use of reserved trace register
95	Fatal Error expected 20-bit signed immediate
96	Fatal Error constant must be in [-524288,524287]
97	Fatal Error expected 16-bit unsigned immediate
98	Warning constant encoding requires sign extension
99	Fatal Error .novle is not compatible with -convert_to_vle

Errors 100 to 199

100	Fatal Error INTEGRITY TimeMachine instrumentation error
101	Fatal Error undefined temp label

102	Fatal Error bad 387 register number
103	Fatal Error no such temporary label
104	Non-Fatal Error label must be in range 0..65535
105	Fatal Error Expected =label
106	Fatal Error Expected const shift count
107	Fatal Error Illegal Binary Coded Decimal value
108	Fatal Error Expected shift amount 2
109	Fatal Error .equ symbol may not be redefined
111	Fatal Error register name may not be reused as a label
112	Fatal Error register name or other keyword may not be reused as a label
113	Non-Fatal Error multiply defined
114	Fatal Error reference not addressable
115	Fatal Error expected identifier
116	Fatal Error value changed after use
117	Fatal Error illegal assignment type change

118	Fatal Error expected comma
119	Fatal Error Cannot weak this
120	Warning Symbol table cannot express a global symbol set to an undefined symbol
121	Non-Fatal Error Expect a push to MIPS .set stack first
122	Fatal Error weak symbol cannot be set to undefined symbol
123	Fatal Error dot cannot decrease
124	Non-Fatal Error Exceed maximum MIPS .set stack level
125	Fatal Error common symbol cannot be redeclared local; use .lcomm instead
126	Non-Fatal Error Expected .mips16 or its variants
127	Fatal Error Missing scope number
128	Non-Fatal Error Expected .set mips16 or its variants
129	Fatal Error .export symbol not defined
130	Fatal Error expected model name
131	Fatal Error Cannot nest
132	Fatal Error register names cannot be made external

133	Fatal Error Missing line number
134	Fatal Error label starting with "_" within .beginscope cannot be exported
135	Fatal Error expected symbol
137	Fatal Error Unmatched
138	Fatal Error .tracereg_endnowarn not matched with prior .tracereg_nowarn
139	Warning Currently, only the FLAT model is supported
140	Fatal Error .import symbol was defined
142	Fatal Error expected comment delimiter
143	Fatal Error Missing function name
144	Fatal Error expected new line
145	Warning unsupported directive
146	Non-Fatal Error Cannot declare symbol weak after definition
147	Non-Fatal Error No output file name assigned
148	Fatal Error expected immediate or label
149	Non-Fatal Error Unsupported operator

150	Warning Relocatable sym1-sym2 value may be incorrect after link-time function deletion
152	Fatal Error negative relocation not allowed
153	Fatal Error expect comma
155	Non-Fatal Error unterminated .if
156	Fatal Error Expected register
158	Non-Fatal Error Subtract of symbols in different sections
160	Fatal Error Expected , or }
161	Non-Fatal Error unterminated comment directive
162	Warning Couldn't open DBO file for patching
163	Fatal Error Expected `]'`
164	Non-Fatal Error unterminated macro or repeat
165	Fatal Error illegal addressing mode
167	Warning Couldn't write to DBO file
170	Non-Fatal Error negative offset for static symbol - may cause problems with software update
171	Warning Couldn't load DBO file for patching

172	Non-Fatal Error Error writing to object file
174	Non-Fatal Error .unexpected end of line
175	Fatal Error Expected shift operand
176	Fatal Error First operand must be register
177	Fatal Error Expected ']'
178	Warning Unknown issue processing DBO file
179	Fatal Error cannot convert undefined expr to register
180	Warning Couldn't open DBO file for writing
181	Non-Fatal Error Relocatable sym1-sym2 must have sym2 in current section
182	Non-Fatal Error 16-bit offset exceeds 32k, possibly due to big switch statement (try -bigswitch)
183	Fatal Error expected register or displacement
184	Fatal Error '-' illegal for System Registers
185	Fatal Error overflow
186	Fatal Error Expected `)'
187	Non-Fatal Error Couldn't add labels to symbol table in DBO file

188	Fatal Error Expected general register
189	Fatal Error alignment must be a power of two
190	Fatal Error "type" relocations only allowed in tv modules
191	Fatal Error Expecting comma
192	Fatal Error .align X mod Y not allowed in special sections
193	Fatal Error mismatched [] in macro parameter list
194	Fatal Error undefined symbol used
195	Fatal Error Branch cannot be expanded
196	Fatal Error .invalid redeclaration of linkonce type
197	Fatal Error non-void .scall directive used after void .scall directive
198	Warning ignoring -g as assembly file originates from source file compiled with -g and .dbo file already exists
199	Fatal Error exponent out of range

Errors 200 to 299

200	Fatal Error too many parameters
201	Fatal Error unmatched conditional assembly directive

202	Warning inexact decimal conversion
203	Fatal Error too many type specifiers
204	Fatal Error mismatched <> in macro parameter list
205	Fatal Error mismatched () or [] in macro parameter list
206	Fatal Error section attribute must be x, d, r, or b
207	Fatal Error too many digits in BCD constant
208	Fatal Error too many nested .include files
209	Fatal Error expected hex digit
210	Fatal Error missing ')', ']' or '>'
211	Fatal Error illegal alignment boundary
212	Fatal Error local symbol cannot be redeclared common; use .lcomm instead
213	Fatal Error multiple maxstack values
214	Fatal Error can't fixup coff symbol scnum
215	Fatal Error expected end of line or ">" for address
216	Fatal Error relocation macro illegal here

217	Warning expected filename
218	Fatal Error expected ']'
219	Fatal Error Unable to open include file. Exiting
220	Fatal Error ..maxstack must be used within scope of current function
221	Fatal Error expected .align X mod Y
222	Fatal Error The difference of two labels with an offset is not allowed
223	Fatal Error multiple maxinstances values
224	Fatal Error .section requires a quoted name
225	Fatal Error constant must be in [1,3]
226	Fatal Error .offset directive cannot decrease current offset
227	Fatal Error type clash
228	Fatal Error mismatched () in macro parameter list
229	Fatal Error multiple hi1, lo, sdaoff, etc. per line not allowed
230	Fatal Error missing single quote
231	Fatal Error hex digit in decimal literal

232	Fatal Error Expecting right parenthesis
233	Fatal Error expected ", entsize"
234	Fatal Error missing character constant
235	Fatal Error newlines in string constant
236	Warning output file not specified; using default filename
237	Fatal Error .endx must match .macro/.rept and begin the line
238	Fatal Error .frameinfo must start with .name
239	Fatal Error wrong number of hex digits
240	Warning coff directive specified but assembler is outputing ELF
241	Fatal Error .bcd constant too large
242	Fatal Error expected [: ,]
243	Fatal Error bcd constant is NAN
244	Fatal Error Too many sections
245	Fatal Error expected end of line
246	Warning elf directive specified but assembler is outputing COFF

247	Fatal Error <code>.float</code> not allowed here
248	Warning too many digits in mantissa
249	Fatal Error <code>.radix</code> operand must be B, Q, D or H
250	Fatal Error unrecognized @type annotation
251	Fatal Error relocation incompatible with <code>-torn</code>
252	Fatal Error bad numeric literal
253	Fatal Error expected positive integer
254	Fatal Error Expected constant
255	Fatal Error range error
256	Fatal Error hi/lo illegal here
257	Fatal Error void <code>.scall</code> directive used after non-void <code>.scall</code> directive
258	Fatal Error <code>.fsize</code> must be used within scope of current function
259	Fatal Error expected comma followed by group name
260	Fatal Error symbol previously defined
261	Fatal Error expected group name

262	Fatal Error include name too long
263	Fatal Error relocation type not allowed
264	Warning ignoring -g as assembly file originates from source file compiled with -g
265	Fatal Error multiple fsize values
266	Fatal Error expected name or 0
267	Fatal Error Unknown directive
268	Fatal Error .scall must be used within scope of current function
269	Fatal Error bad section directive
270	Fatal Error size out of range
271	Fatal Error global not found in c_symnum()
273	Fatal Error value must be in range 0..255
274	Warning multiple text sections in one file; dwarf 1.1 debug information eliminated for this file
275	Fatal Error no coff symbol created
276	Fatal Error can't set coff symbol scnum
277	Fatal Error Expected right parenthesis

278	Fatal Error non zero fill value in .bss-like section
279	Fatal Error too many COFF relocation table entries
280	Warning -s0 not allowed with debug info generation; using -s1 instead
281	Fatal Error expected "bss" or "data"
282	Fatal Error line too complex
283	Fatal Error bad size specification for hex constant
284	Warning illegal octal digit
285	Fatal Error bad @<val> to .type
286	Fatal Error expected name
287	Fatal Error invalid redeclaration of associated linkonce section
288	Fatal Error division by 0
289	Fatal Error expected section attributes
290	Fatal Error recursive macro/rept loop
291	Fatal Error Expected id
292	Warning dc doesn't align odd-addressed data & labels. Precede it with align 2

293	Fatal Error undefined fill value
294	Warning include directory not specified
295	Warning multiple text sections in one file; debug information eliminated for this file
296	Warning immediate encoding requires change of sign
297	Fatal Error invalid expression
298	Warning section does not have allocation bit set
299	Fatal Error .section attribute must be .text, .data, or .bss

Errors 300 to 399

300	Fatal Error fill not allowed in special sections
301	Fatal Error relocatable space < 32 bits
302	Fatal Error fill value out of range
303	Warning artificial macro has incomplete reference info
304	Fatal Error .exitm must be invoked inside a macro
305	Fatal Error Invalid .set syntax
306	Fatal Error recursive macro/rept loop recurses too deeply

308	Fatal Error Could not find associated linkonce section
309	Fatal Error Illegal redefinition of macro
310	Fatal Error Variable expression not allowed here
311	Fatal Error relocations of size other than 32 are not supported with COFF output
312	Fatal Error bss segment phase error type 1
313	Warning .fsize directive causing info specified by .frameinfo to be discarded
314	Fatal Error bcd constant too small
315	Fatal Error relocatable or undefined expression size != 32
316	Fatal Error fail encountered
317	Fatal Error relocation sizes other than 32 and 64 bits are not supported
318	Fatal Error can't combine these types for addressing
319	Fatal Error undefined byte count
320	Fatal Error statement too complicated
321	Fatal Error Expected left parenthesis
322	Fatal Error expected macro name

323	Fatal Error Expecting identifier
324	Fatal Error bcd constant is too large
326	Fatal Error .radix operand must be 2, 8, 10 or 16
327	Fatal Error unterminated < in macro argument
328	Fatal Error Size of section exceeds host memory limit
329	Fatal Error wrong type
330	Fatal Error ? operators are: ?i ?r ?c
331	Fatal Error attempt to dump pool in wrong section
332	Fatal Error Expected string
333	Fatal Error hex constant too long
334	Fatal Error c_symnum: null exref in rel entry
335	Fatal Error unsupported target
336	Fatal Error unknown section attribute
337	Fatal Error macro parameter mismatch
338	Fatal Error expected section flags

339	Fatal Error unknown linkonce type
340	Fatal Error .maxinstances must be used within scope of current function
341	Fatal Error illegal redefinition of section attributes
342	Fatal Error cannot insert negative-sized space
343	Fatal Error unexpected parameter
344	Fatal Error infinite .include loop
345	Warning syntax is obsolete
346	Fatal Error illegal >< concatenation operand
347	Fatal Error special section not closed
348	Fatal Error expected string
350	Warning INTEGRITY TimeMachine instrumentation warning: xxxx
351	Fatal Error Can't create builder information file: xxxx
352	Non-Fatal Error INTEGRITY TimeMachine instrumentation error: xxxx
353	Fatal Error Inconsistent operand types: xxxx and xxxx
354	Fatal Error assignments involving xxxx not allowed

355	Fatal Error xxxx undefined
356	Fatal Error constant must be in [0,####]
357	Fatal Error range error: immediate value xxxx does not fit in #### bits
358	Fatal Error constant must be in [xxxx,xxxx]
359	Fatal Error illegal character (####) 'xxxx'
361	Non-Fatal Error Section xxxx is larger than xxxx bytes
362	Fatal Error Expected ',', ' or 'xxxx'
364	Warning overflow warning
365	Fatal Error .error
366	Warning .warning
367	Fatal Error Assertion failed
368	Fatal Error type clash, operator='xxxx'
369	Fatal Error directive not supported without -asm3g option
370	Fatal Error unable to write to temp file "xxxx"
371	Fatal Error could not close dependencies file

372	Fatal Error directive not supported by the current target configuration
373	Fatal Error unknown object "xxxx"
374	Fatal Error object "xxxx" does not have struct/class/union type
375	Fatal Error struct "xxxx" has no field "xxxx"
376	Fatal Error field "xxxx" in struct "xxxx" does not have struct/class/union type
377	Fatal Error unable to process import file "xxxx"
378	Fatal Error Could not convert, no equivalent VLE instruction exists
379	Fatal Error Could not convert, operands are not compatible with any equivalent VLE instructions
380	Non-Fatal Error reference to blacklisted symbol
381	Non-Fatal Error definition of blacklisted symbol

Errors 2000 to 2099

2001	Fatal Error this register is used in a S4 instruction previously
2002	Fatal Error expected '}', ',', or '-' while parsing reglist
2003	Fatal Error immediate constant expected
2004	Fatal Error not within valid xxxx range

2005	Fatal Error parameter cannot be r0 on this architecture
2006	Fatal Error expected '{' at start of reglist
2007	Fatal Error register cannot be > wr16 in S4 instructions in MPX4Half mode
2008	Fatal Error this register is used in a S1/S2 instruction previously
2009	Fatal Error out of range
2011	Fatal Error expected register while parsing reglist
2012	Fatal Error illegal register for this reglist
2013	Fatal Error comma expected
2014	Fatal Error expected a xxxx
2015	Fatal Error internal ease error: reghi > reglo+32
2016	Fatal Error expected a replicated immediate with #### identical ####-bit values
2018	Fatal Error expected an immediate with prefix 'xxxx'
2019	Fatal Error xxxx constant or relocatable expected
2021	Fatal Error expected least-significant bit to be zero
2022	Fatal Error Out of range sub-data specification '####'

2023	Fatal Error not within valid xxxx set
2024	Fatal Error expected #### least-significant bits to be zero
2025	Fatal Error unmatched text
2026	Fatal Error expected substring "xxxx"
2027	Fatal Error unexpected text before substring "xxxx"
2028	Fatal Error numeric label not found
2029	Fatal Error end-of-line expected
2030	Fatal Error xxxx is an invalid diagnostic number
2031	Non-Fatal Error unrecognized rh850 fpsimd mode: xxxx
2032	Non-Fatal Error reg3 cannot be r0 or the same as reg2
2033	Non-Fatal Error Only one rh850_flags directive allowed
2034	Non-Fatal Error bit instruction found
2035	Non-Fatal Error Bad rh850_flag, ep(r30) is previously set to fixed
2036	Non-Fatal Error Bad rh850_flag, double-precision is previously set to 32 bits
2037	Non-Fatal Error Bad rh850_flag, FPU version is previously set to FPU2.0

2038	Non-Fatal Error Bad rh850_flag, FPU version is previously set to FPU3.0
2039	Non-Fatal Error Bad rh850_flag, FPSIMD Full mode is disabled
2040	Non-Fatal Error Bad rh850_flag, r2 is previously set to reserved
2041	Non-Fatal Error Bad rh850_flag, FPSIMD Half mode is disabled
2042	Non-Fatal Error Bad rh850_flag, data alignment is previously set to 4 bytes
2043	Warning unrecognized cpu type: xxxx
2044	Non-Fatal Error Unrecognized rh850_flag
2045	Non-Fatal Error Bad rh850_flag, register mode is previously set to 32
2046	Non-Fatal Error Bad rh850_flag, data alignment is previously set to 8 bytes
2047	Non-Fatal Error Bad rh850_flag, gp(r4) is previously set to non-fixed
2048	Non-Fatal Error Bad rh850_flag, FPSIMD is disabled
2049	Non-Fatal Error Bad rh850_flag, tp(r5) is previously set to fixed
2050	Non-Fatal Error Bad rh850_flag, tp(r5) is previously set to non-fixed
2051	Non-Fatal Error Bad rh850_flag, SIMD is disabled
2052	Non-Fatal Error Bad rh850_flag, FPU is disabled

2053	Non-Fatal Error Bad rh850_flag, ep(r30) is previously set to non-fixed
2054	Non-Fatal Error Bad rh850_flag, gp(r4) is previously set to fixed
2055	Non-Fatal Error Bad rh850_flag, r2 is previously set to non-reserved
2056	Non-Fatal Error Bad rh850_flag, register mode is previously set to 22
2057	Non-Fatal Error Bad rh850_flag, double-precision is disabled
2058	Warning cpu already set, ignoring option: -cpu=xxxx
2059	Non-Fatal Error Bad rh850_flag, double-precision is previously set to 64 bits
2060	Fatal Error no files to assemble. Use -help for help
2061	Non-Fatal Error Could not read comment file xxxx
2062	Warning cannot redirect stderr to xxxx
2063	Fatal Error expected a macro invocation
2064	Warning Couldn't open DBO file for writing Unable to open a file containing Green Hills debugging information for writing in order to patch in additional information from the assembler.
2065	Fatal Error instruction unsupported in this context
2066	Warning Couldn't load DBO file for patching A problem occurred when loading a file containing Green Hills debugging information in order to patch in additional information from the assembler.

2067	Fatal Error unknown instruction
2068	Fatal Error no default value to macro parameter
2069	Warning Couldn't open DBO file for patching Unable to open a file containing Green Hills debugging information for reading in order to patch in additional information from the assembler.
2070	Warning Couldn't write to DBO file A problem occurred when writing a file containing Green Hills debugging information after patching in additional information from the assembler.
2071	Fatal Error bad parameter
2072	Fatal Error label multiply defined
2073	Warning unknown option: xxxx
2074	Warning Unknown issue processing DBO file An unknown problem occurred while processing a file containing Green Hills debugging information in order to patch in additional information from the assembler. This warning is not currently given.
2075	Fatal Error can't concatenate here
2076	Non-Fatal Error Couldn't add labels to symbol table in DBO file A problem occurred while patching addition information from the assembler into a file containing Green Hills debugging information.
2077	Fatal Error diagnostic xxxx cannot be suppressed
2078	Fatal Error diagnostic xxxx cannot be demoted to a warning

2079	Fatal Error gen_fopen() error on file "xxxx" in INCBIN directive
2080	Fatal Error fseek()/ftell() error on file "xxxx" in INCBIN directive
2081	Fatal Error fread() error on file "xxxx" in INCBIN directive
2082	Non-Fatal Error assertion failed at line ####
2083	Fatal Error info: xxxx
2084	Non-Fatal Error jentry data does not fit in halfword
2085	Fatal Error line ####: invalid newline within symbol
2086	Fatal Error line ####: invalid semicolon within symbol
2087	Fatal Error -PD must be preceded by -armuk The -armuk option must be specified on the command line before options that declare and set ARM UK Assembler Predefines. This error is specific to the ARM target architecture.
2088	Fatal Error -PD: unable to find SET[A S L] directive in 'xxxx'
2089	Non-Fatal Error Arm UK macro parameters must start with '\$'
2093	Fatal Error expected ')' in parameter list
2094	Fatal Error EOF unexpected
2095	Fatal Error cannot find file xxxx

2096	Fatal Error Too many ELF sections
2097	Non-Fatal Error illegal redefinition of non-label symbol xxxx
2098	Fatal Error write to ELF file failed
2099	Non-Fatal Error missing dependency information in do_dependency_file()

Errors 2100 to 2199

2100	Non-Fatal Error multiple fsize values for xxxx
2101	Non-Fatal Error multiple maxstack values for xxxx
2102	Non-Fatal Error multiple maxinstances values for xxxx
2103	Fatal Error xxxx illegal here
2105	Fatal Error invalid rotated immediate
2106	Fatal Error Use of reserved trace register
2107	Fatal Error destination registers are equal
2108	Fatal Error Writeback not permitted for store multiple of user registers
2109	Fatal Error Writeback not permitted for load multiple of user registers not including PC
2110	Fatal Error expected a register

2111	Warning INTEGRITY TimeMachine instrumentation warning (line ####): code outside function; instrumentation suppressed
2112	Warning unrecognized fpu type: xxxx
2113	Warning invalid eflags value: xxxx
2114	Warning AREA both CODE and READWRITE: creating nonstandard .text section with WRITE flag
2115	Warning OPT: unsupported option(s) set
2116	Warning Store multiple of base register with writeback may have unpredictable results
2117	Warning Load multiple of base register with writeback may have unpredictable results
2118	Warning Thumb2 load/store multiple with fewer than 2 registers in mask may have unpredictable results
2119	Warning apcs options used only under -armuk flag The -armuk option must be specified on the command line before -apcs= options that set the values of simulated ARM Ltd. internal variables. This error is specific to the ARM target architecture.
2120	Warning -apcs parameter 'xxxx' unrecognized at position xxxx
2121	Warning Arm UK macro parameters: one token only, read as string Encountered more than one token for the value of an ARM UK macro parameter. This error is specific to the ARM target architecture.
2122	Warning frame address <reg>,<offset>: not supported

2123	Warning frame address <reg>: not supported
2124	Warning frame pop <integer>: not supported
2125	Warning frame pop {<registers>}: not supported
2126	Warning frame push <integer>: not supported
2127	Warning frame push {<registers>}: not supported
2128	Warning frame register: not supported
2129	Warning frame restore: not supported
2130	Warning frame save: not supported
2131	Warning frame state remember: not supported
2132	Warning frame state restore: not supported
2133	Warning require8: not supported
2134	Warning preserve8: not supported
2135	Warning entry: not supported
2136	Warning section xxxx has been assigned multiple types (old:#### new:####)
2137	Warning cannot create .inf file

2138	Warning Instruction length exceeds maximum for source-line debug info The number of bytes of machine code associated with a particular instruction exceeds the limit for what can be represented in the source line table of the debugging information.
2139	Warning ignoring -g as assembly file originates from source file compiled with -g and .dbo file already exists The assembler is not generating debugging information for a source file because it detected symbols in that file that indicate the compiler has already generated the information and the associated file containing the information is known to exist.
2140	Warning ignoring -g as assembly file originates from source file compiled with -g The assembler is not generating debugging information for a source file because it detected symbols in that file that indicate the compiler has already generated the information.
2141	Warning .fsize directive causing info specified by .frameinfo to be discarded
2142	Warning use of deprecated .hidemacro. This feature will be removed shortly!!!
2143	Warning questionable assignment of pointer value to "xxxx" field
2144	Warning questionable assignment of non-zero integer value to "xxxx" field
2145	Warning Ignoring unknown section attribute
2146	Warning Truncating to -1
2147	Non-Fatal Error .thumb not supported with this configuration
2148	Non-Fatal Error .thumb2 not supported with this configuration

2149	Non-Fatal Error .nothumb not supported with this configuration
2150	Non-Fatal Error invalid aligned-data directive
2151	Non-Fatal Error AREA cannot be both READONLY and READWRITE
2152	Non-Fatal Error AREA cannot be both CODE and DATA
2153	Non-Fatal Error AREA both CODE and NOINIT not supported
2154	Non-Fatal Error AREA both READONLY and NOINIT not supported
2155	Non-Fatal Error expected string or constant expression
2156	Non-Fatal Error bad expression
2157	Non-Fatal Error expected [WEAK]
2158	Non-Fatal Error invalid symbol
2159	Non-Fatal Error Too late to ban floating point instructions A directive was used to disable the use of floating-point instructions after at least one such instruction had already been seen.
2160	Non-Fatal Error invalid parameter (0 <= OPT parameter < 65536)
2161	Non-Fatal Error unmatched preprocessor directive
2162	Non-Fatal Error invalid ARM renaming directive
2163	Non-Fatal Error invalid register

2164	Non-Fatal Error jtdispatch only supported in V4 and above
2165	Non-Fatal Error register out of bounds
2166	Non-Fatal Error no jtentry table after previous/only jtdispatch
2167	Non-Fatal Error jtdispatch: invalid parameter(s)
2168	Non-Fatal Error label has been previously defined
2169	Non-Fatal Error symbol may not be equated to expression using dot operator
2170	Non-Fatal Error attempt to redefine to a different value
2173	Non-Fatal Error unsupported directive
2174	Non-Fatal Error no corresponding jtentry lines with data
2175	Non-Fatal Error bad/no corresponding jtdispatch
2176	Fatal Error cannot find file "xxxx" referenced in INCBIN directive
2177	Non-Fatal Error Overlapping IT instructions
2178	Non-Fatal Error Invalid condition code
2179	Fatal Error unexpected token type (xxxx) encountered; expected type (xxxx)
2180	Non-Fatal Error undeclared substituted variable

2181	Non-Fatal Error Invalid 0-length variable (\$ at end of id/string)
2182	Non-Fatal Error Invalid substituted variable (or \$ in id/string)
2183	Non-Fatal Error local label outside any routine or area scope
2184	Non-Fatal Error local label routine-name mismatches current routine
2185	Non-Fatal Error invalid local label (post-first-pass)
2186	Non-Fatal Error local label must begin with a number (after '%' and flags)
2187	Non-Fatal Error local label ref outside routine or area scope
2188	Non-Fatal Error local label ref routine-name mismatches current routine
2189	Non-Fatal Error local label not found
2190	Non-Fatal Error Cannot mix Arm UK and GHS macro syntax in the same file
2191	Non-Fatal Error .Arm UK-style label parameters to macros must start with \$
2192	Non-Fatal Error function/proc directive must be preceded by a label
2193	Non-Fatal Error cannot nest function/proc directives
2194	Non-Fatal Error no corresponding function/proc directive
2195	Non-Fatal Error frame directive must be within proc/endp directives

2196	Non-Fatal Error expected number or register list
2197	Non-Fatal Error expected register list
2198	Non-Fatal Error invalid frame state operation
2199	Non-Fatal Error invalid frame operation

Errors 2200 to 2299

2200	Non-Fatal Error ROUT: may only be preceded by a label
2201	Non-Fatal Error MAP directive expected absolute or section-relative parameter
2202	Non-Fatal Error MAP directive expected register as second parameter
2203	Non-Fatal Error MAP directive: register-base cannot have section-relative offset
2204	Non-Fatal Error FIELD directive without MAP directive
2205	Fatal Error cannot find file "xxxx" referenced in .inspect directive
2207	Non-Fatal Error a variable and an EQU definition cannot share names
2208	Non-Fatal Error undeclared variable
2209	Non-Fatal Error type mismatch
2210	Non-Fatal Error unterminated string constant

2211	Non-Fatal Error non-void <code>.scall</code> directive used after void <code>.scall</code> directive Encountered a <code>.scall</code> directive indicating that a function makes a static call after an earlier directive indicated that the same function makes no calls.
2212	Non-Fatal Error void <code>.scall</code> directive used after non-void <code>.scall</code> directive Encountered a <code>.scall</code> directive indicating that a function makes no static calls after an earlier directive indicated that the same function makes at least one call.
2213	Non-Fatal Error section stack empty
2214	Non-Fatal Error illegal macro redefinition
2215	Non-Fatal Error label parameters to macros not supported
2216	Non-Fatal Error default values for macro parameters not supported Default values for macro parameters are not supported when not in -armuk mode. This error is specific to the ARM target architecture.
2217	Non-Fatal Error Only one use of <code>.macronextline</code> per macro allowed
2218	Non-Fatal Error expected <code>.assert constant_expr [, "message"]</code>
2219	Non-Fatal Error unexpected <code>.else</code>
2220	Non-Fatal Error unexpected <code>.elseif</code>
2221	Non-Fatal Error macro doesn't exist
2222	Non-Fatal Error illegal redefinition
2223	Non-Fatal Error <code>.radix</code> operand must be B, Q, D, or H

2224	Non-Fatal Error expected filename in quotes
2225	Non-Fatal Error expected comma or end-of-line
2226	Non-Fatal Error expected struct type name followed by variable name
2227	Non-Fatal Error Expected struct keyword
2228	Non-Fatal Error Expected struct name in .extern struct
2229	Non-Fatal Error Expected struct variable name in .extern struct
2230	Non-Fatal Error bad directive This error is given in various cases where a supported assembler directive is used incorrectly. See the documentation for the offending directive for information about its proper usage and syntax.
2231	Non-Fatal Error label undefined
2232	Non-Fatal Error expected 'mod'
2233	Non-Fatal Error expected 0..31
2234	Non-Fatal Error unknown type
2235	Non-Fatal Error do not allow nested .dsect blocks
2236	Non-Fatal Error unexpected in .dsect block
2237	Non-Fatal Error Cannot set global symbol to RHS not defined in this file

2238	Non-Fatal Error RHS must be defined in this file
2239	Non-Fatal Error Expected 32-bit value
2240	Non-Fatal Error Failed to find function name for .fsize Unable to match a .fsize directive to a specific function. Only happens on targets where the function is not a required argument to the directive.
2241	Non-Fatal Error Failed to find source function name for .scall Unable to match a .scall directive to a specific function. Only happens on targets where the caller is not a required argument to the directive.
2242	Non-Fatal Error Cannot nest
2243	Non-Fatal Error Not allowed inside of a macro
2244	Non-Fatal Error Line number too large
2245	Non-Fatal Error Scope number too large
2246	Non-Fatal Error Unmatched directive
2247	Non-Fatal Error Value too large
2248	Non-Fatal Error unhandled directive
2249	Non-Fatal Error syntax error in sizeof() expression
2250	Non-Fatal Error syntax error in offsetof() expression
2251	Fatal Error expected expression

2252	Fatal Error expected absolute expression
2253	Fatal Error expected constant expression
2254	Fatal Error expected boolean expression
2255	Fatal Error expected string expression
2256	Fatal Error the predicate parser failed
2257	Non-Fatal Error numeric/temporary labels are obsolete use <code>.macrolocal</code> instead or pass <code>-temporary_labels</code> for transition mode support
2258	Non-Fatal Error initializer data overlaps
2259	Non-Fatal Error A value of type "xxxx" cannot be used to initialize a field of type "xxxx"
2260	Non-Fatal Error more initializers than array elements
2261	Non-Fatal Error expected <code>','</code> or <code>'}'</code> in array initializer
2262	Non-Fatal Error expected at least one initializer in array initializer
2263	Non-Fatal Error struct/class/union "xxxx" has no field "xxxx"
2264	Non-Fatal Error field name must be specified after nested field designator is used
2265	Non-Fatal Error too many field initializer values

2266	Non-Fatal Error bitfields cannot be initialized The assembler does not currently support initializing bitfields in <code>.struct</code> directives.
2267	Non-Fatal Error expected <code>','</code> or <code>'}'</code> in struct initializer
2268	Non-Fatal Error string literal cannot initialize a field of type <code>"xxxx"</code>
2269	Non-Fatal Error aggregate initializer expected
2270	Non-Fatal Error floating point fields cannot be initialized The assembler does not currently support initializing floating-point fields in <code>.struct</code> directives.
2271	Non-Fatal Error cannot initialize field of <code>"xxxx"</code> type with pointer value
2272	Non-Fatal Error cannot initialize field of <code>"xxxx"</code> type with value of <code>"int"</code> type
2273	Non-Fatal Error unable to initialize field to that integer type Encountered an initializer in a <code>.struct</code> directive for an integer type whose size is not 1, 2, 4, or 8 bytes.
2274	Non-Fatal Error syntax error in initializer
2275	Non-Fatal Error expected array initializer
2276	Non-Fatal Error redefinition of <code>"xxxx"</code> as <code>"struct xxxx"</code> , previously <code>"struct xxxx"</code>
2277	Non-Fatal Error unknown struct <code>"xxxx"</code>
2278	Non-Fatal Error name <code>"xxxx"</code> refers to type <code>"xxxx"</code> , not a struct/class/union type

2279	Non-Fatal Error syntax error in field selection
2280	Non-Fatal Error left hand side of field selection operator is a type, not a variable
2281	Non-Fatal Error could not create label
2282	Non-Fatal Error syntax error in array length expression
2283	Non-Fatal Error expected struct initializer or ';'
2284	Non-Fatal Error initializer required when unspecified-length array is declared
2285	Non-Fatal Error relocatable expected
2286	Fatal Error different numbers of macro parameter names and values
2287	Fatal Error symbol table too large The symbol table contains too many entries to be written in the ELF file format.
2288	Fatal Error Offset of section name in string table must fit in 32 bits
2289	Fatal Error unknown construct encountered Encountered a construct that was not recognized as a legal directive, macro, label, or instruction.
2290	Fatal Error unable to create dir "xxxx" for source listing
2291	Fatal Error more tokens expected
2292	Fatal Error can't parse pool expression

2293	Fatal Error unexpected tokens after ldr <register>,<expression> pseudoinstruction
2294	Fatal Error can't evaluate pool expression
2295	Non-Fatal Error directive not supported without -asm3g option
2296	Non-Fatal Error directive not supported by the current target configuration
2297	Non-Fatal Error unable to process import file "xxxx"
2298	Non-Fatal Error unable to write to temp file "xxxx" A problem occurred while attempting to write to a temporary file as part of handling a .inspect directive.
2299	Non-Fatal Error could not close dependencies file

Errors 2300 to 2399

2300	Non-Fatal Error unknown object "xxxx"
2301	Non-Fatal Error struct "xxxx" has no field "xxxx"
2302	Non-Fatal Error object "xxxx" does not have struct/class/union type
2303	Non-Fatal Error field "xxxx" in struct "xxxx" does not have struct/class/union type
2304	Fatal Error failed to open file: xxxx

2305	Non-Fatal Error xxxx ####: memory address (0x####) exceeded the maximum available address (0x####)
2306	Warning unrecognized output format: xxxx
2307	Fatal Error relocation of address counter to (0x####) overwrites previously assembled results
2308	Fatal Error address counter relocation (0x####) not multiples of 4
2309	Warning include file not specified for .cinclude
2310	Non-Fatal Error bad width, must be less than or equal to instruction width, which is 32
2311	Fatal Error address counter relocation not multiples of 4
2312	Non-Fatal Error the expression value cannot be represented by 32 bits
2313	Non-Fatal Error cannot overwrite a previously defined label or variable
2314	Fatal Error relocation of address counter overwrites previously assembled results
2315	Non-Fatal Error character not allowed in an option
2316	Non-Fatal Error the .cmdline directive is only allowed as a first statement of the source file
2317	Non-Fatal Error cannot overwrite a previously defined label

2318	Non-Fatal Error the expression value cannot be represented within the specified width
2319	Non-Fatal Error cannot overwrite a register symbol
2320	Warning .warning
2321	Non-Fatal Error .error
2322	Non-Fatal Error File error opening blacklist file xxxx; skipping blacklist
2323	Non-Fatal Error Blacklisted symbol xxxx is referenced
2324	Non-Fatal Error Blacklisted symbol xxxx is declared

