

pointer:0x7f9703f5d010

SgSourceFile

root node

SgNode* p_parent : 0xb8d080

bool p_isModified : 1

bool p_containsTransformation : 0

\$CLASSNAME* p_freepointer : 0xffffffffffff

Sg_File_Info* p_startOfConstruct : 0x7f970fa1c080

SgStringList p_originalCommandLineArgumentList : [pdfGenerator, -c, constant_declaration.ads]

int p_verbose : 0

bool p_output_warnings : 0

bool p_C_only : 0

bool p_Cxx_only : 0

bool p_Fortran_only : 0

bool p_CoArrayFortran_only : 0

int p_upc_threads : 0

bool p_Java_only : 0

bool p_Jovial_only : 0

bool p_X10_only : 0

bool p_PHP_only : 0

bool p_Python_only : 0

bool p_Cuda_only : 0

bool p_OpenCL_only : 0

bool p_Csharp_only : 0

bool p_Ada_only : 1

bool p_Cobol_only : 0

bool p_requires_C_preprocessor : 0

bool p_binary_only : 0

SgFile::outputFormatOption_enum p_inputFormat : 2

SgFile::outputFormatOption_enum p_outputFormat : 2

SgFile::outputFormatOption_enum p_backendCompileFormat : 2

bool p_fortran_implicit_none : 0

bool p_openmp : 0

bool p_openmp_parse_only : 1

bool p_openmp_ast_only : 0

bool p_openmp_lowering : 0

bool p_openacc : 0

bool p_openacc_parse_only : 0

bool p_openacc_ast_only : 0

bool p_cray_pointer_support : 0

bool p_failsafe : 0

bool p_output_parser_actions : 0

bool p_exit_after_parser : 0

bool p_skip_syntax_check : 0

bool p_skip_parser : 0

bool p_relax_syntax_check : 0

bool p_skip_translation_from_edg_ast_to_rose_ast : 0

bool p_skip_transformation : 0

bool p_skip_unparse : 0

bool p_skipfinalCompileStep : 0

bool p_unparse_includes : 0

bool p_unparse_line_directives : 0

bool p_unparse_function_calls_using_operator_syntax : 0

bool p_unparse_function_calls_using_operator_names : 0

bool p_unparse_instruction_addresses : 1

bool p_unparse_raw_memory_contents : 1

bool p_unparse_binary_file_format : 1

SgFile::languageOption_enum p_outputLanguage : 12

SgFile::languageOption_enum p_inputLanguage : 12

std::string p_sourceFileNameWithPath : /home/liao6/workspace/ada-to-cpp-FY21/rose-ast/ada/constant_declaration.ads

std::string p_sourceFileNameWithoutPath : constant_declaration.ads

std::string p_unparse_output_filename :

std::string p_objectFileNameWithPath :

std::string p_objectFileNameWithoutPath :

bool p_useBackendOnly : 0

pointer:0x7f970f993128
SgGlobal
/home/liao6/workspace/ada-to-cpp-FY21/rose-ast/ada/constant_declaration.ads 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

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SgNode* p_parent : 0x7f9703f5d010
bool p_isModified : 1
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f970fa1c0f0
Sg_File_Info* p_endOfConstruct : 0x7f970fa1c160
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : 0
SgSymbolTable* p_symbol_table : 0x7f970f93d170
SgTypeTable* p_type_table : 0xbc7b08
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgPragma* p_pragma : 0
SgDeclarationStatementPtrList p_declarations : [0x7f97039b9010]

pointer:0x7f97039b9010
SgAdaPackageSpecDecl
Constant_Declaration.ads 1:1
IsTransformation:0
IsOutputInCodeGeneration:1
Declaration mangled name: ada\$pkg\$Constant_Declaration

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SgNode* p_parent : 0x7f970f993128
bool p_isModified : 1
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f970fa1c860
Sg_File_Info* p_endOfConstruct : 0x7f970fa1c8d0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : 1
unsigned int p_decl_attributes : 0
std::string p_linkage :
SgDeclarationModifier p_declarationModifier : <too long>: <too long>: SgDeclarationModifier(isUnknown() = false isDefault() = true isFrien
bool p_nameOnly : 0
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f97039b9010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationScope* p_declarationScope : 0
SgName p_name : Constant_Declaration
SgAdaPackageSpec* p_definition : 0x7f9703ed0130
SgScopeStatement* p_scope : 0x7f970f993128

pointer:0x7f9703ed0130
SgAdaPackageSpec
transformation 0:0
IsTransformation:1
IsOutputInCodeGeneration:1

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SgNode* p_parent : 0x7f97039b9010
bool p_isModified : 1
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f970fa1c5c0
Sg_File_Info* p_endOfConstruct : 0x7f970fa1c630
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : 2
SgSymbolTable* p_symbol_table : 0x7f970f93d4e0
SgTypeTable* p_type_table : 0xbc7b80
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgPragma* p_pragma : 0
SgAdaPackageBody* p_body : 0
SgDeclarationStatementPtrList p_declarations : [0x7f970358c010]

pointer:0x7f970358c010
SgVariableDeclaration
transformation 0:0
IsTransformation:1
IsOutputInCodeGeneration:1
Declaration mangled name: ada\$pkg\$spec_variable_declaration__variable_type_Ci_variable_name_Constant_Declaration__scope__The

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SgNode* p_parent : 0x7f9703ed0130
bool p_isModified : 1
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f970fa1d820
Sg_File_Info* p_endOfConstruct : 0x7f970fa1d890
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : 3
unsigned int p_decl_attributes : 0
std::string p_linkage :
SgDeclarationModifier p_declarationModifier : <too long>: <too long>: SgDeclarationModifier(isUnknown() = false isDefault() = true isFrien
bool p_nameOnly : 0
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f970358c010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationScope* p_declarationScope : 0
SgDeclarationStatement* p_baseTypeDefiningDeclaration : 0
SgInitializedNamePtrList p_variables : [0x7f9703742010]
bool p_variableDeclarationContainsBaseTypeDefiningDeclaration : 0
SgDeclarationStatement::template_specialization_enum p_specialization : 1
bool p_requiresGlobalNameQualificationOnType : 0
std::string p_gnu_extension_section :
std::string p_gnu_extension_alias :
unsigned short p_gnu_extension_initialization_priority : 0
SgDeclarationStatement::gnu_extension_visibility_attribute_enum p_gnu_extension_visibility : 1
SgVariableDeclaration::gnu_extension_declaration_attributes_enum p_gnu_extension_declaration_attribute : 1
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
bool p_isAssociatedWithDeclarationList : 0
bool p_isFirstDeclarationOfDeclarationList : 1
bool p_is_thread_local : 0
bool p_is_constexpr : 0
bool p_builtFromUseOnly : 0

pointer:0x7f9703742010
SgInitializedName
transformation 0:0
IsTransformation:1
IsOutputInCodeGeneration:1

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SgNode* p_parent : 0x7f970358c010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f970fa1d660
Sg_File_Info* p_endOfConstruct : 0x7f970fa1d6d0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : The_Constant
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f97038b2010
SgInitializer* p_initptr : 0x7f9703840010
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0
SgStorageModifier* p_storageModifier : 0xcb48e0
SgScopeStatement* p_scope : 0x7f9703ed0130
SgInitializedName::preinitialization_enum p_preinitialization : 0
bool p_isCoArray : 0
SgInitializedName::asm_register_name_enum p_register_name_code : 0
SgInitializedName::excess_specifier_enum p_excess_specifier : 0
std::string p_register_name_string :
bool p_requiresGlobalNameQualificationOnType : 0
bool p_shapeDeferred : 0
bool p_initializationDeferred : 0
SgBitVector p_gnu_attribute_modifierVector : [F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F]
unsigned long int p_gnu_attribute_initialization_priority : 0
std::string p_gnu_attribute_named_weak_reference :
std::string p_gnu_attribute_named_alias :
std::string p_gnu_attribute_cleanup_function :
std::string p_gnu_attribute_section_name :
int p_gnu_attribute_alignment : -1
SgDeclarationModifier::gnu_declaration_visibility_enum p_gnu_attribute_visibility : 0
bool p_protected_declaration : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
int p_name_qualification_length_for_type : 0
bool p_type_elaboration_required_for_type : 0
bool p_global_qualification_required_for_type : 0
bool p_hasArrayTypeWithEmptyBracketSyntax : 0
bool p_using_C11_Alignas_keyword : 0
SgNode* p_constant_or_type_argument_for_Alignas_keyword : 0
bool p_using_auto_keyword : 0
SgType * p_auto_decltype : 0
bool p_using_device_keyword : 0
bool p_is_braced_initialized : 0
bool p_using_assignment_copy_constructor_syntax : 0
bool p_needs_definitions : 0
bool p_is_parameter_pack : 0
bool p_is_pack_element : 0

pointer:0x7f9703840010
SgAssignInitializer
transformation 0:0
IsTransformation:1
IsOutputInCodeGeneration:1
Expression type: int

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SgNode* p_parent : 0x7f9703742010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f970fa1d3c0
Sg_File_Info* p_endOfConstruct : 0x7f970fa1d430
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 0
bool p_lvalue : 0
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f970fa1d350
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgExpression* p_operand_i : 0x7f9703873090
SgType* p_expression_type : 0

pointer:0x7f9703873090
SgIntVal
transformation 0:0
IsTransformation:1
IsOutputInCodeGeneration:1
Expression type: int

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SgNode* p_parent : 0x7f9703840010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f970fa1d200
Sg_File_Info* p_endOfConstruct : 0x7f970fa1d270
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 0
bool p_lvalue : 0
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f970fa1d2e0
SgExpression* p_originalExpressionTree : 0
int p_value : 1
std::string p_valueString : 1

