

pointer:0x7f93823d2010
SgSourceFile

root node

SgNode* p_parent : 0x24e39f0

bool p_isModified : 0

bool p_containsTransformation : 0

\$CLASSNAME* p_freepointer : 0xffffffffffffff

Sg_File_Info* p_startOfConstruct : 0x7f9382591068

SgStringList p_originalCommandLineArgumentList : [pdfGenerator, -c, func1.c]

int p_verbose : 0

bool p_output_warnings : 0

bool p_C_only : 1

bool p_UPC_only : 0

bool p_UPCxx_only : 0

int p_upc_threads : 0

bool p_C89_only : 0

bool p_C89_gnu_only : 0

bool p_C99_only : 1

bool p_C99_gnu_only : 1

bool p_Cxx_only : 0

bool p_C11_only : 0

bool p_C11_gnu_only : 0

bool p_Cxx0x_only : 0

bool p_Cxx11_only : 0

bool p_Cxx11_gnu_only : 0

bool p_C14_only : 0

bool p_C14_gnu_only : 0

bool p_Cxx14_only : 0

bool p_Cxx14_gnu_only : 0

bool p_Fortran_only : 0

bool p_F77_only : 0

bool p_F90_only : 0

bool p_F95_only : 0

bool p_F2003_only : 0

bool p_F2008_only : 0

bool p_CoArrayFortran_only : 0

bool p_Java_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_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_omp : 0

bool p_omp_parse_only : 1

bool p_omp_ast_only : 0

bool p_omp_lowering : 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_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

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```
DeclarationStatementPtrList p_declarations : <too long>: <too long>: [0x7f9382227010, 0x7f9381d21010, 0x7f9381d213e0, 0x7f9381d213e0]
```

pointer:0x7f93814fbd90
SgFunctionDeclaration
/home/liao6/workspace/github/rose-ast.git/func1.c 1:1
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: foo___Fb_i_Gb__i__Fe___L1R

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SgNode* p_parent : 0x7f938250c120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f938121fcd0
Sg_File_Info* p_endOfConstruct : 0x7f938121fd28
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() = false isFrie
bool p_nameOnly : 0
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0x7f93814fbd90
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f93814fb9c0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : foo
SgFunctionParameterList* p_parameterList : 0x7f938167f990
SgFunctionModifier p_functionModifier : <too long>: <too long>: SgFunctionModifier(isUnknown() = false isDefault() = true isInline()
SgSpecialFunctionModifier p_specialFunctionModifier : <too long>: <too long>: SgSpecialFunctionModifier(isUnknown() = false isDefault()
SgTypePtrList p_exceptionSpecification : []
bool p_named_in_end_statement : 0
std::string p_asm_name :
SgExprListExp* p_decoratorList : 0
SgFunctionType* p_type : 0x7f9381efed90
SgFunctionDefinition* p_definition : 0x7f93810a7010
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f938250c120
SgDeclarationStatement::template_specialization_enum p_specialization : 1
bool p_requiresNameQualificationOnReturnType : 0
std::string p_gnu_extension_section :
std::string p_gnu_extension_alias :
SgDeclarationStatement::gnu_extension_visability_attribute_enum p_gnu_extension_visability : 1
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
int p_name_qualification_length_for_return_type : 0
bool p_type_elaboration_required_for_return_type : 0
bool p_global_qualification_required_for_return_type : 0
bool p_prototypelsWithoutParameters : 0
int p_gnu_regparm_attribute : -1
SgFunctionType* p_type_syntax : 0
bool p_type_syntax_is_available : 0
bool p_using_C11_Noreturn_keyword : 0
bool p_is_constexpr : 0
bool p_using_new_function_return_type_syntax : 0
SgFunctionParameterScope* p_functionParameterScope : 0
bool p_marked_as_edg_normalization : 0

pointer:0x7f938167f990
SgFunctionParameterList
/home/liao6/workspace/github/rose-ast.git/func1.c 1:1
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L1R

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SgNode* p_parent : 0x7f93814fbd90
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f93812201a0
Sg_File_Info* p_endOfConstruct : 0x7f93812201f8
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 : 0x7f938167f990
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : [0x7f9381269f20]

pointer:0x7f9381269f20
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/func1.c 1:13
IsTransformation:0
IsOutputInCodeGeneration:0

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SgNode* p_parent : 0x7f938167f990
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f938121ff90
Sg_File_Info* p_endOfConstruct : 0x7f938121ffe8
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : i
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f9381b27010
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f93814fbd90
SgStorageModifier* p_storageModifier : 0x2f71190
SgScopeStatement* p_scope : 0x7f93810a7010
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_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
bool p_using_device_keyword : 0
bool p_is_braced_initialized : 0

pointer:0x7f93810a7010
SgFunctionDefinition
/home/liao6/workspace/github/rose-ast.git/func1.c 2:1
IsTransformation:0
IsOutputInCodeGeneration:0

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SgNode* p_parent : 0x7f93814fbd90
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f9381220040
Sg_File_Info* p_endOfConstruct : 0x7f9381220098
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : -1
SgSymbolTable* p_symbol_table : 0x7f93824c14d0
SgTypeTable* p_type_table : 0x251e4b0
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f938113c010
std::map<SgNode*,int> p_scope_number_list : []

pointer:0x7f938113c010
SgBasicBlock
/home/liao6/workspace/github/rose-ast.git/func1.c 2:1
IsTransformation:0
IsOutputInCodeGeneration:0

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SgNode* p_parent : 0x7f93810a7010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f938121fee0
Sg_File_Info* p_endOfConstruct : 0x7f938121ff38
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : -1
SgSymbolTable* p_symbol_table : 0x7f93824c13a0
SgTypeTable* p_type_table : 0x251e488
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f9381045010]
std::string p_asm_function_body :

pointer:0x7f9381045010
SgReturnStmt
/home/liao6/workspace/github/rose-ast.git/func1.c 3:3
IsTransformation:0
IsOutputInCodeGeneration:0

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SgNode* p_parent : 0x7f938113c010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f9381220358
Sg_File_Info* p_endOfConstruct : 0x7f93812203b0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : -1
SgExpression* p_expression : 0x7f9381074010

pointer:0x7f9381074010
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/func1.c 3:10
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

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SgNode* p_parent : 0x7f9381045010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f93812202a8
Sg_File_Info* p_endOfConstruct : 0x7f9381220300
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 : 0x7f93812200f0
SgVariableSymbol* p_symbol : 0x2fd6420
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

