

pointer:0x7f15efa27010
SgSourceFile

root node

SgNode* p_parent : 0x1334a50
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15efbe6068
SgStringList p_originalCommandLineArgumentList : [pdfGenerator, -std=c++11, -c, lambda.cxx]
int p_verbose : 0
bool p_output_warnings : 0
bool p_C_only : 0
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 : 0
bool p_C99_gnu_only : 0
bool p_Cxx_only : 1
bool p_C11_only : 0
bool p_C11_gnu_only : 0
bool p_Cxx0x_only : 0
bool p_Cxx11_only : 1
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_openmp : 0
bool p_openmp_parse_only : 1
bool p_openmp_ast_only : 0
bool p_openmp_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

pointer:0x7f15efb61120
SgGlobal
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15efa27010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15efbe60c0
Sg_File_Info* p_endOfConstruct : 0x7f15efbe6118
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 : 0x7f15efb16140
SgTypeTable* p_type_table : 0x136f498
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgDeclarationStatementPtrList p_declarations : <too long>: <too long>: [0x7f15ef87c010, 0x7f15ef87c2b0, 0x7f15ef3ad010, 0x7f15ef3ad3

pointer:0x7f15ed90e010
SgNamespaceDeclarationStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 8:1
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: RAJA

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15efb61120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3cbd8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3cc30
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0x1407730
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 isFriend() = false)
bool p_nameOnly : 0
bool p_forward : 1
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ed90e010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : RAJA
SgNamespaceDefinitionStatement* p_definition : 0x7f15eda3f010
bool p_isUnnamedNamespace : 0
bool p_isInlinedNamespace : 0

pointer:0x7f15eda3f010
SgNamespaceDefinitionStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 9:1
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed90e010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3c760
Sg_File_Info* p_endOfConstruct : 0x7f15edeecab0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0x1b1eae0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : -1
SgSymbolTable* p_symbol_table : 0x7f15efb18870
SgTypeTable* p_type_table : 0x136f9c0
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgDeclarationStatementPtrList p_declarations : [0x7f15ef899b30, 0x7f15ed61e440, 0x7f15ee318310, 0x7f15ed61eca0]
SgNamespaceDeclarationStatement* p_namespaceDeclaration : 0x7f15ed90e010
SgNamespaceDefinitionStatement* p_previousNamespaceDefinition : 0
SgNamespaceDefinitionStatement* p_nextNamespaceDefinition : 0
SgNamespaceDefinitionStatement* p_global_definition : 0x7f15eda3f148
bool p_isUnionOfReentrantNamespaceDefinitions : 0

pointer:0x7f15ef899b30
SgTypedefDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 10:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L89R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eda3f010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3cc88
Sg_File_Info* p_endOfConstruct : 0x7f15edb3cce0
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 : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ef899b30
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : Index_type
SgType* p_base_type : 0x7f15ef6a1010
SgTypedefType* p_type : 0x7f15ef83e9d8
SgDeclarationStatement* p_declaration : 0
SgSymbol* p_parent_scope : 0x7f15ed8db010
bool p_typedefBaseTypeContainsDefiningDeclaration : 0
SgScopeStatement* p_scope : 0x7f15eda3f010
bool p_requiresGlobalNameQualificationOnType : 0
int p_name_qualification_length_for_base_type : 0
bool p_type_elaboration_required_for_base_type : 0
bool p_global_qualification_required_for_base_type : 0
bool p_isAutonomousDeclaration : 1
bool p_isAssociatedWithDeclarationList : 0
bool p_isFirstDeclarationOfDeclarationList : 1

pointer:0x7f15ed61e440
SgTemplateFunctionDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 14:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L90R__L91R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eda3f010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3dba8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3cd90
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0x14098a0
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 : 0x7f15ed61e440
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ed61e010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : forall
SgFunctionParameterList* p_parameterList : 0x7f15eeb5b500
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 : 0x7f15ef5a40e0
SgFunctionDefinition* p_definition : 0x7f15ed589010
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15eda3f010
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
SgTemplateParameterPtrList p_templateParameters : [0x7f15ed85d010, 0x7f15ed85d070]
SgTemplateArgumentPtrList p_templateSpecializationArguments : []
SgName p_string : <too long>: <too long>: template < typename EXEC_POLICY_T, typename LOOP_BODY >
bool p_string_represents_function_body : 0

pointer:0x7f15eeb5b500
SgFunctionParameterList
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 16:14
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L91R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed61e440
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d4c8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d520
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 : 0x7f15eeb5b500
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : [0x7f15edb75b40, 0x7f15edb75c88, 0x7f15edb75dd0]

pointer:0x7f15edb75b40
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 16:39
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5b500
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d158
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d1b0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : begin
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed61e440
SgStorageModifier* p_storageModifier : 0x21a3520
SgScopeStatement* p_scope : 0x7f15ed589010
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb75c88
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 16:57
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5b500
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d208
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d260
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : end
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed61e440
SgStorageModifier* p_storageModifier : 0x21a3548
SgScopeStatement* p_scope : 0x7f15ed589010
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb75dd0
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 17:28
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5b500
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d2b8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d310
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : loop_body
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ed88c0b0
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed61e440
SgStorageModifier* p_storageModifier : 0x21a3570
SgScopeStatement* p_scope : 0x7f15ed589010
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_visability_enum p_gnu_attribute_visability : 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:0x7f15ed589010
SgTemplateFunctionDefinition
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 18:14
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed61e440
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d368
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d3c0
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 : 0x7f15efb18c00
SgTypeTable* p_type_table : 0x136fa38
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f15ede40240
std::map<SgNode*,int> p_scope_number_list : []

pointer:0x7f15ede40240
SgBasicBlock
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 18:14
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed589010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d0a8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d100
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 : 0x7f15efb18ad0
SgTypeTable* p_type_table : 0x136fa10
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec010]
std::string p_asm_function_body :

pointer:0x7f15ed4ec010
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 19:16
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40240
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ddb8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3de10
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 : 0x7f15edcd70f0

pointer:0x7f15edcd70f0
SgFunctionCallExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 19:23
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3dd08
Sg_File_Info* p_endOfConstruct : 0x7f15edb3dd60
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 : 0x7f15edb3daa0
SgExpression* p_function : 0x7f15ed55a010
SgExprListExp* p_args : 0x7f15edd0e148
SgType* p_expression_type : 0x7f15ef5a40e0
bool p_uses_operator_syntax : 0

pointer:0x7f15ed55a010
SgTemplateFunctionRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 19:16
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void(::RAJA::Index_type, ::RAJA::Index_type, LOOP_BODY)

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd70f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d5d0
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d628
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 : 0x7f15edb3d418
SgTemplateFunctionSymbol* p_symbol_i : 0x21e87d0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e148
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd70f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3dc00
Sg_File_Info* p_endOfConstruct : 0x7f15edb3dc58
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 : 0x7f15edb3d998
SgExpressionPtrList p_expressions : [0x7f15ed51b010, 0x7f15edd410e0, 0x7f15edd41148, 0x7f15edd411b0]

pointer:0x7f15ed51b010
SgConstructorInitializer
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 19:25
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: EXEC_POLICY_T

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e148
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d470
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d7e0
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 : 0x7f15edb3d6d8
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgMemberFunctionDeclaration* p_declaration : 0
SgExprListExp* p_args : 0x7f15edd0e0e0
SgType* p_expression_type : 0x7f15ed88c010
bool p_need_name : 1
bool p_need_qualifier : 0
bool p_need_parenthesis_after_name : 1
bool p_associated_class_unknown : 1
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e0e0
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed51b010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d680
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d578
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 : 0x7f15edb3d730
SgExpressionPtrList p_expressions : []

pointer:0x7f15edd410e0
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 20:20
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e148
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d8e8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3d940
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 : 0x7f15edb3d788
SgVariableSymbol* p_symbol : 0x215c0d0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd41148
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 20:27
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e148
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3d9f0
Sg_File_Info* p_endOfConstruct : 0x7f15edb3da48
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 : 0x7f15edb3d838
SgVariableSymbol* p_symbol : 0x215c100
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd411b0
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 21:20
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: LOOP_BODY

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e148
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3daf8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3db50
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 : 0x7f15edb3d890
SgVariableSymbol* p_symbol : 0x215c130
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ee318310
SgClassDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 26:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: RAJA__scope__class__seq__exec

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eda3f010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3dfc8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e020
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0x1409140
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 : 0x7f15ee318310
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee318070
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : seq_exec
SgClassDeclaration::class_types p_class_type : 1
SgClassType* p_type : 0x7f15ee2d0e10
SgClassDefinition* p_definition : 0x7f15ee23d020
SgScopeStatement* p_scope : 0x7f15eda3f010
SgDeclarationStatement::template_specialization_enum p_specialization : 1
bool p_from_template : 0
bool p_fixupScope : 0
bool p_isUnNamed : 0
bool p_explicit_annotation_interface : 0
bool p_explicit_interface : 0
bool p_explicit_enum : 0
bool p_explicit_anonymous : 0
SgExprListExp* p_decoratorList : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
bool p_isAutonomousDeclaration : 1
bool p_isRepresentingTemplateParameterInTemplateDeclaration : 0

pointer:0x7f15ee23d020
SgClassDefinition
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 26:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee318310
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3df70
Sg_File_Info* p_endOfConstruct : 0x7f15edb3df18
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 : 0x7f15efb18d30
SgTypeTable* p_type_table : 0x136fa60
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgDeclarationStatementPtrList p_members : []
SgBaseClassPtrList p_inheritances : []
unsigned int p_packingAlignment : 0
bool p_isSequence : 0
bool p_isPrivate : 0
bool p_isAbstract : 0

pointer:0x7f15ed61eca0
SgTemplateFunctionDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 31:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L92R__L93R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eda3f010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3fa40
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e078
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0x1b1c0c0
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 : 0x7f15ed61eca0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ed61e870
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : forall
SgFunctionParameterList* p_parameterList : 0x7f15eeb5b9a0
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 : 0x7f15ef5a4170
SgFunctionDefinition* p_definition : 0x7f15ed589140
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15eda3f010
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
SgTemplateParameterPtrList p_templateParameters : [0x7f15ed85d0d0]
SgTemplateArgumentPtrList p_templateSpecializationArguments : []
SgName p_string : <too long>: <too long>: template < typename LOOP_BODY > void forall (seq_exec,
bool p_string_represents_function_body : 0

pointer:0x7f15eeb5b9a0
SgFunctionParameterList
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 32:5
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L93R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed61eca0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3e968
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e9c0
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 : 0x7f15eeb5b9a0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : [0x7f15edb76438, 0x7f15edb76580, 0x7f15edb766c8, 0x7f15edb76810]

pointer:0x7f15edb76438
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 32:19
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5b9a0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3e548
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e5a0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name :
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ee2d0e10
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed61eca0
SgStorageModifier* p_storageModifier : 0x21a3638
SgScopeStatement* p_scope : 0x7f15ed589140
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb76580
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 33:20
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5b9a0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3e5f8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e650
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : begin
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed61eca0
SgStorageModifier* p_storageModifier : 0x21a3660
SgScopeStatement* p_scope : 0x7f15ed589140
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb766c8
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 33:38
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5b9a0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3e6a8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e700
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : end
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed61eca0
SgStorageModifier* p_storageModifier : 0x21a3688
SgScopeStatement* p_scope : 0x7f15ed589140
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb76810
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 34:19
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5b9a0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3e758
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e7b0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : loop_body
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ed88c150
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed61eca0
SgStorageModifier* p_storageModifier : 0x21a36b0
SgScopeStatement* p_scope : 0x7f15ed589140
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_visability_enum p_gnu_attribute_visability : 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:0x7f15ed589140
SgTemplateFunctionDefinition
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 35:5
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed61eca0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3e808
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e860
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 : 0x7f15efb18f90
SgTypeTable* p_type_table : 0x136fab0
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f15ede40358
std::map<SgNode*,int> p_scope_number_list : []

pointer:0x7f15ede40358
SgBasicBlock
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 35:5
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed589140
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3e498
Sg_File_Info* p_endOfConstruct : 0x7f15edb3e4f0
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 : 0x7f15efb18e60
SgTypeTable* p_type_table : 0x136fa88
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec070, 0x7f15ed45b010, 0x7f15ed4ec190]
std::string p_asm_function_body :

pointer:0x7f15ed4ec070
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 36:7
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40358
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3eb20
Sg_File_Info* p_endOfConstruct : 0x7f15edb3eb78
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 : 0x7f15edad8060

pointer:0x7f15edad8060
SgNullExpression
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec070
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ea70
Sg_File_Info* p_endOfConstruct : 0x7f15edb3eac8
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 : 0x7f15edb3e8b8

pointer:0x7f15ed45b010
SgForStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:7
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40358
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3fbf8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3fc50
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 : 0x7f15efb190c0
SgTypeTable* p_type_table : 0x136fad8
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgForInitStatement* p_for_init_stmt : 0x7f15ed424080
SgStatement* p_test : 0x7f15ed4ec0d0
SgExpression* p_increment : 0x7f15ed387010
SgStatement* p_loop_body : 0x7f15ede40470
SgStatement* p_else_body : 0
std::string p_string_label :

pointer:0x7f15ed424080
SgForInitStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:13
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3eff0
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f048
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : -1
SgStatementPtrList p_init_stmt : [0x7f15ee020420]

pointer:0x7f15ee020420
SgVariableDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:13
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: _variable_declaration__variable_type_L89R_variable_name_L92R_L93R__scope____SgSS2__scope____

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed424080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ed30
Sg_File_Info* p_endOfConstruct : 0x7f15edb3ed88
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 : 1
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee020420
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationStatement* p_baseTypeDefiningDeclaration : 0
SgInitializedNamePtrList p_variables : [0x7f15edb76958]
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 : 0
SgVariableDeclaration::gnu_extension_declaration_attributes_enum p_gnu_extension_declaration_attribute : 0
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

pointer:0x7f15edb76958
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:13
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee020420
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ecd8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3ec80
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : ii
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0x7f15ed3f1010
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15edf00b18
SgStorageModifier* p_storageModifier : 0x21a36d8
SgScopeStatement* p_scope : 0x7f15ed45b010
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_visability_enum p_gnu_attribute_visability : 2
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:0x7f15ed3f1010
SgAssignInitializer
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edb76958
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ef40
Sg_File_Info* p_endOfConstruct : 0x7f15edb3eee8
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 : 0x7f15edb3ec28
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgExpression* p_operand_i : 0x7f15edd41218
SgType* p_expression_type : 0

pointer:0x7f15edd41218
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:29
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3f1010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ee38
Sg_File_Info* p_endOfConstruct : 0x7f15edb3ee90
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 : 0x7f15edb3ebd0
SgVariableSymbol* p_symbol : 0x215c190
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed4ec0d0
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:36
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f3b8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f410
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 : 0x7f15ed3ba010

pointer:0x7f15ed3ba010
SgLessThanOp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:39
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: bool

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec0d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f308
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f360
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 : 0x7f15edb3f0a0
SgExpression* p_lhs_operand_i : 0x7f15edd41280
SgExpression* p_rhs_operand_i : 0x7f15edd412e8
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15edd41280
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:36
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3ba010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f0f8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f150
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 : 0x7f15edb3ef98
SgVariableSymbol* p_symbol : 0x215c220
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd412e8
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:41
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3ba010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f200
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f258
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 : 0x7f15edb3ede0
SgVariableSymbol* p_symbol : 0x215c1c0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed387010
SgPlusPlusOp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:46
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f5c8
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f620
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 : 0x7f15edb3f1a8
SgExpression* p_operand_i : 0x7f15edd41350
SgType* p_expression_type : 0
SgUnaryOp::Sgop_mode p_mode : 0

pointer:0x7f15edd41350
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:49
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed387010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f4c0
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f518
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 0
bool p_lvalue : 1
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f15edb3f2b0
SgVariableSymbol* p_symbol : 0x215c220
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ede40470
SgBasicBlock
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:54
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f678
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f6d0
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 : 0x7f15efb191f0
SgTypeTable* p_type_table : 0x136fb00
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec130]
std::string p_asm_function_body :

pointer:0x7f15ed4ec130
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:9
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40470
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3fb48
Sg_File_Info* p_endOfConstruct : 0x7f15edb3fba0
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 : 0x7f15edcd7160

pointer:0x7f15edcd7160
SgFunctionCallExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:19
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: UNKNOWN

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec130
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3fa98
Sg_File_Info* p_endOfConstruct : 0x7f15edb3faf0
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 : 0x7f15edb3f830
SgExpression* p_function : 0x7f15edd413b8
SgExprListExp* p_args : 0x7f15edd0e1b0
SgType* p_expression_type : 0x7f15ed88c150
bool p_uses_operator_syntax : 0

pointer:0x7f15edd413b8
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:9
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: LOOP_BODY

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7160
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f780
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f7d8
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 : 0x7f15edb3f570
SgVariableSymbol* p_symbol : 0x215c1f0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e1b0
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7160
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f990
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f9e8
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 : 0x7f15edb3f728
SgExpressionPtrList p_expressions : [0x7f15edd41420]

pointer:0x7f15edd41420
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:21
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e1b0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3f888
Sg_File_Info* p_endOfConstruct : 0x7f15edb3f8e0
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 : 0x7f15edb3f468
SgVariableSymbol* p_symbol : 0x215c220
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed4ec190
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 41:7
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40358
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3fdb0
Sg_File_Info* p_endOfConstruct : 0x7f15edb3fe08
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 : 0x7f15edad80b0

pointer:0x7f15edad80b0
SgNullExpression
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec190
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3fd00
Sg_File_Info* p_endOfConstruct : 0x7f15edb3fd58
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 : 0x7f15edb3f938

pointer:0x7f15ed183010
SgTemplateInstantiationFunctionDecl
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L94R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15efb61120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40228
Sg_File_Info* p_endOfConstruct : 0x7f15edb401d0
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 : 1
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0x7f15ed183c70
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ed183010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : forall < seq_exec , >
SgFunctionParameterList* p_parameterList : 0x7f15eeb5bbf0
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 : 0x7f15ef5a4200
SgFunctionDefinition* p_definition : 0
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15eda3f010
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 : 0x7f15ef5a4200
bool p_type_syntax_is_available : 1
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
SgName p_templateName : forall
SgTemplateFunctionDeclaration* p_templateDeclaration : 0x7f15ed61e010
SgTemplateArgumentPtrList p_templateArguments : [0x7f15ed82a148, 0x7f15ed82a1b0]
bool p_nameResetFromMangledForm : 1
bool p_nameResetFromMangledForm : 1

pointer:0x7f15eeb5bbf0
SgFunctionParameterList
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L95R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed183010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3fe60
Sg_File_Info* p_endOfConstruct : 0x7f15edb3feb8
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 : 0x7f15eeb5bbf0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : [0x7f15edb76aa0, 0x7f15edb76be8, 0x7f15edb76d30]

pointer:0x7f15edb76aa0
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5bbf0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ff10
Sg_File_Info* p_endOfConstruct : 0x7f15edb3ff68
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : begin
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183010
SgStorageModifier* p_storageModifier : 0x21a3700
SgScopeStatement* p_scope : 0x7f15eda3f010
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb76be8
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5bbf0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb3ffc0
Sg_File_Info* p_endOfConstruct : 0x7f15edb40018
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : end
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183010
SgStorageModifier* p_storageModifier : 0x21a3728
SgScopeStatement* p_scope : 0x7f15eda3f010
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb76d30
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5bbf0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40120
Sg_File_Info* p_endOfConstruct : 0x7f15edb40178
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : loop_body
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ee2d0e90
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183010
SgStorageModifier* p_storageModifier : 0x21a3750
SgScopeStatement* p_scope : 0x7f15eda3f010
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_visability_enum p_gnu_attribute_visability : 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:0x7f15eea17980
SgFunctionDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 50:1
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: foo_input___Fb_v_Gb___Fe___L86R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15efb61120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb402d8
Sg_File_Info* p_endOfConstruct : 0x7f15edb40280
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0x1b203f0
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 : 0x7f15eea17980
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15eea175b0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : foo_input
SgFunctionParameterList* p_parameterList : 0x7f15eeb5c090
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 : 0x7f15ef58c890
SgFunctionDefinition* p_definition : 0x7f15eddab270
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15efb61120
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:0x7f15eeb5c090
SgFunctionParameterList
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 50:1
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L86R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eea17980
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb405f0
Sg_File_Info* p_endOfConstruct : 0x7f15edb40648
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 : 0x7f15eeb5c090
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : []

pointer:0x7f15eddab270
SgFunctionDefinition
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 51:1
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eea17980
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40490
Sg_File_Info* p_endOfConstruct : 0x7f15edb404e8
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 : 0x7f15efb19450
SgTypeTable* p_type_table : 0x136fb50
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f15ede40588
std::map<SgNode*,int> p_scope_number_list : [0x7f15eddab270->1, 0x7f15ede40588->2]

[Click here to go to the parent node](#)

pointer:0x7f15ee0206b0
SgVariableDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 52:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: __variable_declaration__variable_type_Ci_variable_name_foo_input____Fb_v_Gb____Fe____L86R____scope_____

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40588
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40800
Sg_File_Info* p_endOfConstruct : 0x7f15edb40858
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 : 1
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee0206b0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationStatement* p_baseTypeDefiningDeclaration : 0
SgInitializedNamePtrList p_variables : [0x7f15edb76e78]
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 : 0
SgVariableDeclaration::gnu_extension_declaration_attributes_enum p_gnu_extension_declaration_attribute : 0
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

pointer:0x7f15edb76e78
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 52:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee0206b0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb407a8
Sg_File_Info* p_endOfConstruct : 0x7f15edb40750
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : n
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef2c9f50
SgInitializer* p_initptr : 0x7f15ed3f1078
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15edf00d60
SgStorageModifier* p_storageModifier : 0x21a3778
SgScopeStatement* p_scope : 0x7f15ede40588
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_visability_enum p_gnu_attribute_visability : 2
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:0x7f15ed3f1078
SgAssignInitializer
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edb76e78
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40a10
Sg_File_Info* p_endOfConstruct : 0x7f15edb409b8
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 : 0x7f15edb406f8
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgExpression* p_operand_i : 0x7f15ee1d5f18
SgType* p_expression_type : 0

pointer:0x7f15ee1d5f18
SgIntVal
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 52:17
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3f1078
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40908
Sg_File_Info* p_endOfConstruct : 0x7f15edb40960
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 : 0x7f15edb406a0
SgExpression* p_originalExpressionTree : 0
int p_value : 15
std::string p_valueString : 15

pointer:0x7f15ee318af0
SgClassDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 54:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L87R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40588
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40c20
Sg_File_Info* p_endOfConstruct : 0x7f15edb40c78
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 : 0x7f15ee318af0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee318850
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : ManagedArray
SgClassDeclaration::class_types p_class_type : 1
SgClassType* p_type : 0x7f15ee2d0f10
SgClassDefinition* p_definition : 0x7f15ee23d150
SgScopeStatement* p_scope : 0x7f15ede40588
SgDeclarationStatement::template_specialization_enum p_specialization : 1
bool p_from_template : 0
bool p_fixupScope : 0
bool p_isUnNamed : 0
bool p_explicit_annotation_interface : 0
bool p_explicit_interface : 0
bool p_explicit_enum : 0
bool p_explicit_anonymous : 0
SgExprListExp* p_decoratorList : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
bool p_isAutonomousDeclaration : 1
bool p_isRepresentingTemplateParameterInTemplateDeclaration : 0

pointer:0x7f15ee23d150
SgClassDefinition
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 54:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee318af0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40d28
Sg_File_Info* p_endOfConstruct : 0x7f15edb40cd0
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 : 0x7f15efb19580
SgTypeTable* p_type_table : 0x136fb78
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgDeclarationStatementPtrList p_members : [0x7f15ee020940]
SgBaseClassPtrList p_inheritances : []
unsigned int p_packingAlignment : 0
bool p_isSequence : 0
bool p_isPrivate : 0
bool p_isAbstract : 0

pointer:0x7f15ee020940
SgVariableDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 55:5
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L87R_variable_declaration__variable_type_i_variable_name_L87R__scope__m1

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee23d150
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40e30
Sg_File_Info* p_endOfConstruct : 0x7f15edb40e88
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 : 1
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee020940
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationStatement* p_baseTypeDefiningDeclaration : 0
SgInitializedNamePtrList p_variables : [0x7f15edb76fc0]
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 : 0
SgVariableDeclaration::gnu_extension_declaration_attributes_enum p_gnu_extension_declaration_attribute : 0
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

pointer:0x7f15edb76fc0
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 55:5
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee020940
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40dd8
Sg_File_Info* p_endOfConstruct : 0x7f15edb40d80
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : m1
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef6a1010
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15edf00fa8
SgStorageModifier* p_storageModifier : 0x21a37a0
SgScopeStatement* p_scope : 0x7f15ee23d150
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_visability_enum p_gnu_attribute_visability : 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:0x7f15ee020bd0
SgVariableDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 58:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: _variable_declaration__variable_type_L87R_variable_name_foo_input____Fb_v_Gb____Fe____L86R__scope____

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40588
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41040
Sg_File_Info* p_endOfConstruct : 0x7f15edb41098
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 : 1
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee020bd0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationStatement* p_baseTypeDefiningDeclaration : 0
SgInitializedNamePtrList p_variables : [0x7f15edb77108]
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 : 0
SgVariableDeclaration::gnu_extension_declaration_attributes_enum p_gnu_extension_declaration_attribute : 0
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

pointer:0x7f15edb77108
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 58:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee020bd0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40fe8
Sg_File_Info* p_endOfConstruct : 0x7f15edb40f90
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : ma
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ee2d0f10
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15edf011f0
SgStorageModifier* p_storageModifier : 0x21a37c8
SgScopeStatement* p_scope : 0x7f15ede40588
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_visability_enum p_gnu_attribute_visability : 2
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:0x7f15ed4ec1f0
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 59:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40588
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41618
Sg_File_Info* p_endOfConstruct : 0x7f15edb41670
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 : 0x7f15ed115010

pointer:0x7f15ed115010
SgAssignOp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 59:9
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec1f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41568
Sg_File_Info* p_endOfConstruct : 0x7f15edb415c0
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 : 0x7f15edb41460
SgExpression* p_lhs_operand_i : 0x7f15ed14c010
SgExpression* p_rhs_operand_i : 0x7f15ee1d5f80
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15ed14c010
SgDotExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 59:5
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed115010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41358
Sg_File_Info* p_endOfConstruct : 0x7f15edb413b0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 0
bool p_lvalue : 1
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f15edb410f0
SgExpression* p_lhs_operand_i : 0x7f15edd41488
SgExpression* p_rhs_operand_i : 0x7f15edd414f0
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15edd41488
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 59:3
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: struct ManagedArray

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed14c010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41148
Sg_File_Info* p_endOfConstruct : 0x7f15edb411a0
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 : 0x7f15edb40ee0
SgVariableSymbol* p_symbol : 0x215c2b0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd414f0
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 59:6
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed14c010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41250
Sg_File_Info* p_endOfConstruct : 0x7f15edb412a8
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 : 0x7f15edb40f38
SgVariableSymbol* p_symbol : 0x215c280
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ee1d5f80
SgIntVal
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 59:11
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed115010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41408
Sg_File_Info* p_endOfConstruct : 0x7f15edb41300
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 : 0x7f15edb414b8
SgExpression* p_originalExpressionTree : 0
int p_value : 100
std::string p_valueString : 100

pointer:0x7f15ee020e60
SgVariableDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 61:3
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: __variable_declaration__variable_type__Pb__d__Pe__variable_name_foo_input__Fb_v_Gb__Fe__L86f

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40588
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41828
Sg_File_Info* p_endOfConstruct : 0x7f15edb41880
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 : 1
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee020e60
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationStatement* p_baseTypeDefiningDeclaration : 0
SgInitializedNamePtrList p_variables : [0x7f15edb77250]
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 : 0
SgVariableDeclaration::gnu_extension_declaration_attributes_enum p_gnu_extension_declaration_attribute : 0
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

pointer:0x7f15edb77250
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 61:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee020e60
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb417d0
Sg_File_Info* p_endOfConstruct : 0x7f15edb41778
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : a
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef372268
SgInitializer* p_initptr : 0x7f15ed3f10e0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15edf01438
SgStorageModifier* p_storageModifier : 0x21a37f0
SgScopeStatement* p_scope : 0x7f15ede40588
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_visability_enum p_gnu_attribute_visability : 2
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:0x7f15ed3f10e0
SgAssignInitializer
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: double(*)[15]

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edb77250
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41d50
Sg_File_Info* p_endOfConstruct : 0x7f15edb41cf8
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 : 0x7f15edb41ae8
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgExpression* p_operand_i : 0x7f15ed0d2010
SgType* p_expression_type : 0

pointer:0x7f15ed0d2010
SgNewExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 61:15
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double(*)[15]

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3f10e0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41c48
Sg_File_Info* p_endOfConstruct : 0x7f15edb41ca0
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 : 0x7f15edb41a38
SgType* p_specified_type : 0x7f15ee153f40
SgExprListExp* p_placement_args : 0
SgConstructorInitializer* p_constructor_args : 0x7f15ed51b090
SgExpression* p_builtin_args : 0
short p_need_global_specifier : 0
SgFunctionDeclaration* p_newOperatorDeclaration : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed51b090
SgConstructorInitializer
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: double [15]

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed0d2010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41b40
Sg_File_Info* p_endOfConstruct : 0x7f15edb41b98
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 1
bool p_lvalue : 0
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f15edb41720
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgMemberFunctionDeclaration* p_declaration : 0
SgExprListExp* p_args : 0x7f15edd0e218
SgType* p_expression_type : 0x7f15ee153f40
bool p_need_name : 0
bool p_need_qualifier : 0
bool p_need_parenthesis_after_name : 0
bool p_associated_class_unknown : 1
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e218
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed51b090
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb419e0
Sg_File_Info* p_endOfConstruct : 0x7f15edb418d8
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 : 0x7f15edb41a90
SgExpressionPtrList p_expressions : []

pointer:0x7f15ed4ec2b0
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40588
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44798
Sg_File_Info* p_endOfConstruct : 0x7f15edb447f0
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 : 0x7f15edcd71d0

pointer:0x7f15edcd71d0
SgFunctionCallExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:41
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec2b0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb446e8
Sg_File_Info* p_endOfConstruct : 0x7f15edb44740
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 : 0x7f15edb42e80
SgExpression* p_function : 0x7f15edd740f0
SgExprListExp* p_args : 0x7f15edd0e280
SgType* p_expression_type : 0x7f15ef5a4200
bool p_uses_operator_syntax : 0

pointer:0x7f15edd740f0
SgFunctionRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:3
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void(::RAJA::Index_type, ::RAJA::Index_type, class)

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd71d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41e58
Sg_File_Info* p_endOfConstruct : 0x7f15edb41eb0
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 : 0x7f15edb41bf0
SgFunctionSymbol* p_symbol_i : 0x201caa0
SgFunctionType* p_function_type : 0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e280
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd71d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb445e0
Sg_File_Info* p_endOfConstruct : 0x7f15edb44638
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 : 0x7f15edb444d8
SgExpressionPtrList p_expressions : [0x7f15ee1d6050, 0x7f15edd41558, 0x7f15ecb8d010]

pointer:0x7f15ee1d6050
SgIntVal
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:42
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e280
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb41f08
Sg_File_Info* p_endOfConstruct : 0x7f15edb41e00
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 : 0x7f15edb41fb8
SgExpression* p_originalExpressionTree : 0
int p_value : 0
std::string p_valueString : 0

pointer:0x7f15edd41558
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:44
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: const int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e280
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42170
Sg_File_Info* p_endOfConstruct : 0x7f15edb421c8
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 : 0x7f15edb41da8
SgVariableSymbol* p_symbol : 0x215c250
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ecb8d010
SgLambdaExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:47
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e280
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44480
Sg_File_Info* p_endOfConstruct : 0x7f15edb442c8
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 : 0x7f15edb44530
SgLambdaCaptureList* p_lambda_capture_list : 0x7f15ed0a3010
SgClassDeclaration* p_lambda_closure_class : 0x7f15ee3185b0
SgFunctionDeclaration* p_lambda_function : 0x7f15ecdcd3f0
bool p_is_mutable : 0
bool p_capture_default : 1
bool p_default_is_by_reference : 0
bool p_explicit_return_type : 0
bool p_has_parameter_decl : 1
bool p_is_device : 0

pointer:0x7f15ed0a3010
SgLambdaCaptureList
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:47
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecb8d010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42220
Sg_File_Info* p_endOfConstruct : 0x7f15edb42068
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLambdaCapturePtrList p_capture_list : [0x7f15ed070010, 0x7f15ed070078]

pointer:0x7f15ed070010
SgLambdaCapture
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:7
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed0a3010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42900
Sg_File_Info* p_endOfConstruct : 0x7f15edb42958
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgExpression* p_capture_variable : 0x7f15edd415c0
SgExpression* p_source_closure_variable : 0
SgExpression* p_closure_variable : 0x7f15edd41628
bool p_capture_by_reference : 0
bool p_implicit : 1
bool p_pack_expansion : 0

pointer:0x7f15edd415c0
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 61:3
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed070010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42328
Sg_File_Info* p_endOfConstruct : 0x7f15edb42380
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 : 0x7f15edb41f60
SgVariableSymbol* p_symbol : 0x215c2e0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd41628
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:7
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed070010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42850
Sg_File_Info* p_endOfConstruct : 0x7f15edb428a8
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 : 0x7f15edb425e8
SgVariableSymbol* p_symbol : 0x215c310
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed070078
SgLambdaCapture
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:20
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed0a3010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42dd0
Sg_File_Info* p_endOfConstruct : 0x7f15edb42e28
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgExpression* p_capture_variable : 0x7f15edd41690
SgExpression* p_source_closure_variable : 0
SgExpression* p_closure_variable : 0x7f15edd416f8
bool p_capture_by_reference : 0
bool p_implicit : 1
bool p_pack_expansion : 0

pointer:0x7f15edd41690
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 58:3
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: struct ManagedArray

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed070078
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42a08
Sg_File_Info* p_endOfConstruct : 0x7f15edb42a60
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 : 0x7f15edb427f8
SgVariableSymbol* p_symbol : 0x215c2b0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd416f8
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:20
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: struct ManagedArray

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed070078
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb42d20
Sg_File_Info* p_endOfConstruct : 0x7f15edb42d78
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 : 0x7f15edb42ab8
SgVariableSymbol* p_symbol : 0x215c340
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ee3185b0
SgClassDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:47
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: class____anonymous_0x1f4dc80

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecb8d010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb40070
Sg_File_Info* p_endOfConstruct : 0x7f15edb400c8
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 : 1
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee3185b0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : ____anonymous_0x1f4dc80
SgClassDeclaration::class_types p_class_type : 0
SgClassType* p_type : 0x7f15ee2d0e90
SgClassDefinition* p_definition : 0
SgScopeStatement* p_scope : 0x7f15efb61120
SgDeclarationStatement::template_specialization_enum p_specialization : 1
bool p_from_template : 0
bool p_fixupScope : 0
bool p_isUnNamed : 1
bool p_explicit_annotation_interface : 0
bool p_explicit_interface : 0
bool p_explicit_enum : 0
bool p_explicit_anonymous : 0
SgExprListExp* p_decoratorList : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
bool p_isAutonomousDeclaration : 1
bool p_isRepresentingTemplateParameterInTemplateDeclaration : 0

pointer:0x7f15ecdcd3f0
SgMemberFunctionDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:51
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L96R__L97R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecb8d010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb441c0
Sg_File_Info* p_endOfConstruct : 0x7f15edb42ed8
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 : 0x7f15ecdcd3f0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ecdcd010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : operator()
SgFunctionParameterList* p_parameterList : 0x7f15eeb5c530
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 : 0x7f15ecfd20b0
SgFunctionDefinition* p_definition : 0x7f15eddab3a0
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15ee23d280
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
SgCtorInitializerList* p_CtorInitializerList : 0x7f15ecccb260
SgClassDeclaration* p_associatedClassDeclaration : 0x7f15ee319030

pointer:0x7f15eeb5c530
SgFunctionParameterList
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:51
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L97R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecd3f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb434b0
Sg_File_Info* p_endOfConstruct : 0x7f15edb43508
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 : 0x7f15eeb5c530
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : [0x7f15edb77770]

pointer:0x7f15edb77770
SgInitializedName
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 63:56
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5c530
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb431f0
Sg_File_Info* p_endOfConstruct : 0x7f15edb43248
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 : 0x7f15ef6a1010
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ecd3f0
SgStorageModifier* p_storageModifier : 0x21a3890
SgScopeStatement* p_scope : 0x7f15eddab3a0
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_visability_enum p_gnu_attribute_visability : 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:0x7f15eddab3a0
SgFunctionDefinition
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 64:7
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecded3f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb432a0
Sg_File_Info* p_endOfConstruct : 0x7f15edb432f8
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 : 0x7f15efb19910
SgTypeTable* p_type_table : 0x136bf0
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f15ede406a0
std::map<SgNode*,int> p_scope_number_list : []

pointer:0x7f15ede406a0
SgBasicBlock
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 64:7
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eddab3a0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb43140
Sg_File_Info* p_endOfConstruct : 0x7f15edb43198
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 : 0x7f15efb197e0
SgTypeTable* p_type_table : 0x136fbc8
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec250]
std::string p_asm_function_body :

pointer:0x7f15ed4ec250
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:7
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede406a0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb443d0
Sg_File_Info* p_endOfConstruct : 0x7f15edb44428
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 : 0x7f15ed115080

pointer:0x7f15ed115080
SgAssignOp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:12
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec250
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44320
Sg_File_Info* p_endOfConstruct : 0x7f15edb44378
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 : 0x7f15edb440b8
SgExpression* p_lhs_operand_i : 0x7f15ecc2e010
SgExpression* p_rhs_operand_i : 0x7f15ecbc4010
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15ecc2e010
SgPntrArrRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:8
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed115080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb439d8
Sg_File_Info* p_endOfConstruct : 0x7f15edb43a30
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 0
bool p_lvalue : 1
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f15edb43770
SgExpression* p_lhs_operand_i : 0x7f15ecc65010
SgExpression* p_rhs_operand_i : 0x7f15edd417c8
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15ecc65010
SgArrowExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: double *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecc2e010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb437c8
Sg_File_Info* p_endOfConstruct : 0x7f15edb43820
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 : 0x7f15edb43560
SgExpression* p_lhs_operand_i : 0x7f15ecc9c010
SgExpression* p_rhs_operand_i : 0x7f15edd41760
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15ecc9c010
SgThisExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: class *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecc65010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb435b8
Sg_File_Info* p_endOfConstruct : 0x7f15edb43610
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 : 0x7f15edb43350
SgClassSymbol* p_class_symbol : 0x2143860
int p_pobj_this : 0

pointer:0x7f15edd41760
SgVarRefExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: double *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecc65010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb436c0
Sg_File_Info* p_endOfConstruct : 0x7f15edb43718
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 : 0x7f15edb433a8
SgVariableSymbol* p_symbol : 0x215c310
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd417c8
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:9
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecc2e010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb438d0
Sg_File_Info* p_endOfConstruct : 0x7f15edb43928
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 : 0x7f15edb43668
SgVariableSymbol* p_symbol : 0x215c370
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ecbc4010
SgAddOp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:18
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed115080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44218
Sg_File_Info* p_endOfConstruct : 0x7f15edb44270
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 : 0x7f15edb43fb0
SgExpression* p_lhs_operand_i : 0x7f15ecbfb010
SgExpression* p_rhs_operand_i : 0x7f15ee19ae20
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15ecbf010
SgDoubleVal
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:14
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecbc4010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb43a88
Sg_File_Info* p_endOfConstruct : 0x7f15edb43980
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 : 0x7f15edb43b38
SgExpression* p_originalExpressionTree : 0
double p_value : 0.5
std::string p_valueString : 0.5

pointer:0x7f15ee19ae20
SgCastExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: double

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecbc4010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44110
Sg_File_Info* p_endOfConstruct : 0x7f15edb44168
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 : 0x7f15edb43ea8
SgExpression* p_operand_i : 0x7f15ed14c080
SgType* p_expression_type : 0x7f15ef258010
SgUnaryOp::Sgop_mode p_mode : 0
SgCastExp::cast_type_enum p_cast_type : 2
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
bool p_castContainsBaseTypeDefiningDeclaration : 0

pointer:0x7f15ed14c080
SgDotExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:22
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee19ae20
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44008
Sg_File_Info* p_endOfConstruct : 0x7f15edb44060
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 : 0x7f15edb43da0
SgExpression* p_lhs_operand_i : 0x7f15ecc65080
SgExpression* p_rhs_operand_i : 0x7f15edd41898
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15ecc65080
SgArrowExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: struct ManagedArray

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed14c080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb43df8
Sg_File_Info* p_endOfConstruct : 0x7f15edb43e50
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 : 0x7f15edb43b90
SgExpression* p_lhs_operand_i : 0x7f15ecc9c070
SgExpression* p_rhs_operand_i : 0x7f15edd41830
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15ecc9c070
SgThisExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: class *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecc65080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb43be8
Sg_File_Info* p_endOfConstruct : 0x7f15edb43c40
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 : 0x7f15edb43ae0
SgClassSymbol* p_class_symbol : 0x2143860
int p_pobj_this : 0

pointer:0x7f15edd41830
SgVarRefExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: struct ManagedArray

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecc65080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb43cf0
Sg_File_Info* p_endOfConstruct : 0x7f15edb43d48
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 : 0x7f15edb43878
SgVariableSymbol* p_symbol : 0x215c340
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd41898
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 65:23
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed14c080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb43f00
Sg_File_Info* p_endOfConstruct : 0x7f15edb43f58
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 : 0x7f15edb43c98
SgVariableSymbol* p_symbol : 0x215c280
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ecccb260
SgCtorInitializerList
NULL_FILE 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Declaration mangled name: L88R_constructor_initialization_list_

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ecded3f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb43400
Sg_File_Info* p_endOfConstruct : 0x7f15edb43458
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 : 0x7f15ecccb260
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ecccb260
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_ctors : []

pointer:0x7f15ed4ec310
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 69:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40588
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44d70
Sg_File_Info* p_endOfConstruct : 0x7f15edb44dc8
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 : 0x7f15edcd7240

pointer:0x7f15edcd7240
SgFunctionCallExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 69:7
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec310
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44cc0
Sg_File_Info* p_endOfConstruct : 0x7f15edb44d18
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 : 0x7f15edb44a58
SgExpression* p_function : 0x7f15edd74160
SgExprListExp* p_args : 0x7f15edd0e2e8
SgType* p_expression_type : 0x7f15ef58cb60
bool p_uses_operator_syntax : 0

pointer:0x7f15edd74160
SgFunctionRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 69:3
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void(void *)

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7240
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb448a0
Sg_File_Info* p_endOfConstruct : 0x7f15edb448f8
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 : 0x7f15edb44690
SgFunctionSymbol* p_symbol_i : 0x201be40
SgFunctionType* p_function_type : 0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e2e8
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7240
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44bb8
Sg_File_Info* p_endOfConstruct : 0x7f15edb44c10
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 : 0x7f15edb44950
SgExpressionPtrList p_expressions : [0x7f15ee19ae98]

pointer:0x7f15ee19ae98
SgCastExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: void *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e2e8
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44ab0
Sg_File_Info* p_endOfConstruct : 0x7f15edb44b08
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 : 0x7f15edb44848
SgExpression* p_operand_i : 0x7f15edd41900
SgType* p_expression_type : 0x7f15ef3723d0
SgUnaryOp::Sgop_mode p_mode : 0
SgCastExp::cast_type_enum p_cast_type : 2
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0
bool p_castContainsBaseTypeDefiningDeclaration : 0

pointer:0x7f15edd41900
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 69:8
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: double *

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee19ae98
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb449a8
Sg_File_Info* p_endOfConstruct : 0x7f15edb44a00
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 : 0x7f15edb44588
SgVariableSymbol* p_symbol : 0x215c2e0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15eea18120
SgFunctionDeclaration
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 72:1
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: main_0x7f15eea18120

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15efb61120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44e78
Sg_File_Info* p_endOfConstruct : 0x7f15edb44e20
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 : 0x7f15eea18120
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15eea17d50
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : main
SgFunctionParameterList* p_parameterList : 0x7f15eeb5c9d0
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 : 0x7f15ef58a1c0
SgFunctionDefinition* p_definition : 0x7f15eddab4d0
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15efb61120
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:0x7f15eeb5c9d0
SgFunctionParameterList
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 72:1
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L86R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eea18120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45190
Sg_File_Info* p_endOfConstruct : 0x7f15edb451e8
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 : 0x7f15eeb5c9d0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : []

pointer:0x7f15eddab4d0
SgFunctionDefinition
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 73:1
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eea18120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45030
Sg_File_Info* p_endOfConstruct : 0x7f15edb45088
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 : 0x7f15efb19b70
SgTypeTable* p_type_table : 0x136fc40
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f15ede407b8
std::map<SgNode*,int> p_scope_number_list : []

pointer:0x7f15ede407b8
SgBasicBlock
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 73:1
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eddab4d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb44f80
Sg_File_Info* p_endOfConstruct : 0x7f15edb44fd8
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 : 0x7f15efb19a40
SgTypeTable* p_type_table : 0x136fc18
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec370, 0x7f15edca80d0]
std::string p_asm_function_body :

pointer:0x7f15ed4ec370
SgExprStatement
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 74:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede407b8
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45558
Sg_File_Info* p_endOfConstruct : 0x7f15edb455b0
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 : 0x7f15edcd72b0

pointer:0x7f15edcd72b0
SgFunctionCallExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 74:12
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec370
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb454a8
Sg_File_Info* p_endOfConstruct : 0x7f15edb45500
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 : 0x7f15edb45240
SgExpression* p_function : 0x7f15edd741d0
SgExprListExp* p_args : 0x7f15edd0e350
SgType* p_expression_type : 0x7f15ef58c890
bool p_uses_operator_syntax : 0

pointer:0x7f15edd741d0
SgFunctionRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 74:3
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void()

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd72b0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45298
Sg_File_Info* p_endOfConstruct : 0x7f15edb452f0
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 : 0x7f15edb450e0
SgFunctionSymbol* p_symbol_i : 0x201cad0
SgFunctionType* p_function_type : 0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e350
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd72b0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb453a0
Sg_File_Info* p_endOfConstruct : 0x7f15edb453f8
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 : 0x7f15edb45138
SgExpressionPtrList p_expressions : []

pointer:0x7f15edca80d0
SgReturnStmt
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 75:3
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede407b8
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45710
Sg_File_Info* p_endOfConstruct : 0x7f15edb45768
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 : 0x7f15ee1d6120

pointer:0x7f15ee1d6120
SgIntVal
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 75:10
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edca80d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45608
Sg_File_Info* p_endOfConstruct : 0x7f15edb45348
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 : 0x7f15edb456b8
SgExpression* p_originalExpressionTree : 0
int p_value : 0
std::string p_valueString : 0

pointer:0x7f15ed183850
SgTemplateInstantiationFunctionDecl
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L98R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15efb61120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45818
Sg_File_Info* p_endOfConstruct : 0x7f15edb457c0
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 : 0x7f15ed183850
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ed183430
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : forall < >
SgFunctionParameterList* p_parameterList : 0x7f15eeb5ce70
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 : 0x7f15ef5a4290
SgFunctionDefinition* p_definition : 0x7f15eddab600
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15eda3f010
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
SgName p_templateName : forall
SgTemplateFunctionDeclaration* p_templateDeclaration : 0x7f15ed61e870
SgTemplateArgumentPtrList p_templateArguments : [0x7f15ed82a218]
bool p_nameResetFromMangledForm : 1
bool p_nameResetFromMangledForm : 1

pointer:0x7f15eeb5ce70
SgFunctionParameterList
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L99R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed183850
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb460b0
Sg_File_Info* p_endOfConstruct : 0x7f15edb46108
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 isFriend
bool p_nameOnly : 0
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15eeb5ce70
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : [0x7f15edb77dd8, 0x7f15edb77f20, 0x7f15edb78068, 0x7f15edb781b0]

pointer:0x7f15edb77dd8
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5ce70
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45c90
Sg_File_Info* p_endOfConstruct : 0x7f15edb45ce8
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name :
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ee2d0e10
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183850
SgStorageModifier* p_storageModifier : 0x21a3958
SgScopeStatement* p_scope : 0x7f15eddab600
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb77f20
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5ce70
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45d40
Sg_File_Info* p_endOfConstruct : 0x7f15edb45d98
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : begin
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183850
SgStorageModifier* p_storageModifier : 0x21a3980
SgScopeStatement* p_scope : 0x7f15eddab600
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb78068
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5ce70
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45df0
Sg_File_Info* p_endOfConstruct : 0x7f15edb45e48
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : end
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183850
SgStorageModifier* p_storageModifier : 0x21a39a8
SgScopeStatement* p_scope : 0x7f15eddab600
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb781b0
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5ce70
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45ea0
Sg_File_Info* p_endOfConstruct : 0x7f15edb45ef8
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : loop_body
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ee2d0e90
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183850
SgStorageModifier* p_storageModifier : 0x21a39d0
SgScopeStatement* p_scope : 0x7f15eddab600
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_visability_enum p_gnu_attribute_visability : 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:0x7f15eddab600
SgFunctionDefinition
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed183850
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45f50
Sg_File_Info* p_endOfConstruct : 0x7f15edb45fa8
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 : 0x7f15efb19dd0
SgTypeTable* p_type_table : 0x136fc90
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f15ede408d0
std::map<SgNode*,int> p_scope_number_list : []

pointer:0x7f15ede408d0
SgBasicBlock
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eddab600
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb45be0
Sg_File_Info* p_endOfConstruct : 0x7f15edb45c38
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 : 0x7f15efb19ca0
SgTypeTable* p_type_table : 0x136fc68
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec3d0, 0x7f15eca4f010, 0x7f15ed45b138, 0x7f15ed4ec4f0]
std::string p_asm_function_body :

pointer:0x7f15ed4ec3d0
SgExprStatement
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede408d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46268
Sg_File_Info* p_endOfConstruct : 0x7f15edb462c0
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 : 0x7f15edad8100

pointer:0x7f15edad8100
SgNullExpression
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec3d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb461b8
Sg_File_Info* p_endOfConstruct : 0x7f15edb46210
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 : 0x7f15edb46000

pointer:0x7f15eca4f010
SgPragmaDeclaration
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: pragma_statement

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede408d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb463c8
Sg_File_Info* p_endOfConstruct : 0x7f15edb46420
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 isFriend
bool p_nameOnly : 0
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0x7f15eca4f010
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15eca4f010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgPragma* p_pragma : 0x7f15ecb69010

pointer:0x7f15ecb69010
SgPragma

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eca4f010
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
std::string p_name : novector
Sg_File_Info* p_startOfConstruct : 0x7f15edb46058
Sg_File_Info* p_endOfConstruct : 0x7f15edb46160
short p_printed : 0
AstAttributeMechanism* p_attributeMechanism : 0

pointer:0x7f15ed45b138
SgForStatement
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede408d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb476b0
Sg_File_Info* p_endOfConstruct : 0x7f15edb47708
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 : 0x7f15efb19f00
SgTypeTable* p_type_table : 0x136fcb8
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgForInitStatement* p_for_init_stmt : 0x7f15ed4240f0
SgStatement* p_test : 0x7f15ed4ec430
SgExpression* p_increment : 0x7f15ed387078
SgStatement* p_loop_body : 0x7f15ede409e8
SgStatement* p_else_body : 0
std::string p_string_label :

pointer:0x7f15ed4240f0
SgForInitStatement
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b138
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46898
Sg_File_Info* p_endOfConstruct : 0x7f15edb468f0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgLabelRefExp* p_numeric_label : 0
int p_source_sequence_value : -1
SgStatementPtrList p_init_stmt : [0x7f15ee021610]

pointer:0x7f15ee021610
SgVariableDeclaration
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: _variable_declaration__variable_type_L89R_variable_name_L98R__scope____SgSS2__scope____SgSS

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4240f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb465d8
Sg_File_Info* p_endOfConstruct : 0x7f15edb46630
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 : 1
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ee021610
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgDeclarationStatement* p_baseTypeDefiningDeclaration : 0
SgInitializedNamePtrList p_variables : [0x7f15edb782f8]
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 : 0
SgVariableDeclaration::gnu_extension_declaration_attributes_enum p_gnu_extension_declaration_attribute : 0
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

pointer:0x7f15edb782f8
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ee021610
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46580
Sg_File_Info* p_endOfConstruct : 0x7f15edb46528
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : ii
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0x7f15ed3f1148
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15edf01b10
SgStorageModifier* p_storageModifier : 0x21a39f8
SgScopeStatement* p_scope : 0x7f15ed45b138
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_visability_enum p_gnu_attribute_visability : 2
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:0x7f15ed3f1148
SgAssignInitializer
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edb782f8
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb467e8
Sg_File_Info* p_endOfConstruct : 0x7f15edb46790
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 : 0x7f15edb464d0
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgExpression* p_operand_i : 0x7f15edd41968
SgType* p_expression_type : 0

pointer:0x7f15edd41968
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:29
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3f1148
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb466e0
Sg_File_Info* p_endOfConstruct : 0x7f15edb46738
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 : 0x7f15edb46478
SgVariableSymbol* p_symbol : 0x215c3d0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed4ec430
SgExprStatement
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b138
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46c60
Sg_File_Info* p_endOfConstruct : 0x7f15edb46cb8
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 : 0x7f15ed3ba080

pointer:0x7f15ed3ba080
SgLessThanOp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:39
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: bool

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec430
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46bb0
Sg_File_Info* p_endOfConstruct : 0x7f15edb46c08
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 : 0x7f15edb46948
SgExpression* p_lhs_operand_i : 0x7f15edd419d0
SgExpression* p_rhs_operand_i : 0x7f15edd41a38
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15edd419d0
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:36
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3ba080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb469a0
Sg_File_Info* p_endOfConstruct : 0x7f15edb469f8
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 : 0x7f15edb46840
SgVariableSymbol* p_symbol : 0x215c460
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd41a38
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:41
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed3ba080
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46aa8
Sg_File_Info* p_endOfConstruct : 0x7f15edb46b00
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 : 0x7f15edb46688
SgVariableSymbol* p_symbol : 0x215c400
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed387078
SgPlusPlusOp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:46
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b138
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46e70
Sg_File_Info* p_endOfConstruct : 0x7f15edb46ec8
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 : 0x7f15edb46a50
SgExpression* p_operand_i : 0x7f15edd41aa0
SgType* p_expression_type : 0
SgUnaryOp::Sgop_mode p_mode : 0

pointer:0x7f15edd41aa0
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 38:49
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed387078
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46d68
Sg_File_Info* p_endOfConstruct : 0x7f15edb46dc0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 0
bool p_lvalue : 1
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f15edb46b58
SgVariableSymbol* p_symbol : 0x215c460
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ede409e8
SgBasicBlock
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed45b138
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb46f20
Sg_File_Info* p_endOfConstruct : 0x7f15edb46f78
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 : 0x7f15efb1a030
SgTypeTable* p_type_table : 0x136fce0
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec490]
std::string p_asm_function_body :

pointer:0x7f15ed4ec490
SgExprStatement
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede409e8
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47600
Sg_File_Info* p_endOfConstruct : 0x7f15edb47658
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 : 0x7f15edcd7320

pointer:0x7f15edcd7320
SgFunctionCallExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:19
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec490
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47550
Sg_File_Info* p_endOfConstruct : 0x7f15edb475a8
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 : 0x7f15edb472e8
SgExpression* p_function : 0x7f15ed14c0f0
SgExprListExp* p_args : 0x7f15edd0e3b8
SgType* p_expression_type : 0x7f15ecfd20b0
bool p_uses_operator_syntax : 1

pointer:0x7f15ed14c0f0
SgDotExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: void(int)

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7320
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47448
Sg_File_Info* p_endOfConstruct : 0x7f15edb474a0
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 : 0x7f15edb471e0
SgExpression* p_lhs_operand_i : 0x7f15edd41b08
SgExpression* p_rhs_operand_i : 0x7f15eca14010
SgType* p_expression_type : 0
SgExpression* p_originalExpressionTree : 0

pointer:0x7f15edd41b08
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:9
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: class

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed14c0f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47130
Sg_File_Info* p_endOfConstruct : 0x7f15edb47188
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 : 0x7f15edb46fd0
SgVariableSymbol* p_symbol : 0x215c430
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15eca14010
SgMemberFunctionRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:19
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: void(int)

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed14c0f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47028
Sg_File_Info* p_endOfConstruct : 0x7f15edb47080
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 : 0x7f15edb46e18
SgMemberFunctionSymbol* p_symbol_i : 0x2207460
int p_virtual_call : 0
SgFunctionType* p_function_type : 0
int p_need_qualifier : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e3b8
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7320
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47340
Sg_File_Info* p_endOfConstruct : 0x7f15edb47398
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 : 0x7f15edb46d10
SgExpressionPtrList p_expressions : [0x7f15edd41b70]

pointer:0x7f15edd41b70
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 39:21
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e3b8
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47238
Sg_File_Info* p_endOfConstruct : 0x7f15edb47290
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
bool p_need_paren : 1
bool p_lvalue : 0
bool p_global_qualified_name : 0
Sg_File_Info* p_operatorPosition : 0x7f15edb470d8
SgVariableSymbol* p_symbol : 0x215c460
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15ed4ec4f0
SgExprStatement
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede408d0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47868
Sg_File_Info* p_endOfConstruct : 0x7f15edb478c0
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 : 0x7f15edad8150

pointer:0x7f15edad8150
SgNullExpression
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec4f0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb477b8
Sg_File_Info* p_endOfConstruct : 0x7f15edb47810
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 : 0x7f15edb473f0

pointer:0x7f15ed183c70
SgTemplateInstantiationFunctionDecl
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L94R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15efb61120
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47760
Sg_File_Info* p_endOfConstruct : 0x7f15edb474f8
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 : 0x7f15ed183c70
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15ed183010
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgName p_name : forall < seq_exec , >
SgFunctionParameterList* p_parameterList : 0x7f15eeb5d0c0
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 : 0x7f15ef5a4200
SgFunctionDefinition* p_definition : 0x7f15eddab730
bool p_oldStyleDefinition : 0
SgScopeStatement* p_scope : 0x7f15eda3f010
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
SgName p_templateName : forall
SgTemplateFunctionDeclaration* p_templateDeclaration : 0x7f15ed61e010
SgTemplateArgumentPtrList p_templateArguments : [0x7f15ed82a148, 0x7f15ed82a1b0]
bool p_nameResetFromMangledForm : 1
bool p_nameResetFromMangledForm : 1

pointer:0x7f15eeb5d0c0
SgFunctionParameterList
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0
Declaration mangled name: L95R

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed183c70
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xffffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47d38
Sg_File_Info* p_endOfConstruct : 0x7f15edb47d90
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 isFriend
bool p_nameOnly : 0
bool p_forward : 0
bool p_externBrace : 0
bool p_skipElaborateType : 0
SgDeclarationStatement* p_definingDeclaration : 0
SgDeclarationStatement* p_firstNondefiningDeclaration : 0x7f15eeb5d0c0
SgQualifiedNamePtrList p_qualifiedNameList : []
std::string p_binding_label :
SgInitializedNamePtrList p_args : [0x7f15edb78440, 0x7f15edb78588, 0x7f15edb786d0]

pointer:0x7f15edb78440
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5d0c0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb479c8
Sg_File_Info* p_endOfConstruct : 0x7f15edb47a20
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : begin
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183c70
SgStorageModifier* p_storageModifier : 0x21a3a20
SgScopeStatement* p_scope : 0x7f15eddab730
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb78588
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5d0c0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47a78
Sg_File_Info* p_endOfConstruct : 0x7f15edb47ad0
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : end
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ef83e9d8
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183c70
SgStorageModifier* p_storageModifier : 0x21a3a48
SgScopeStatement* p_scope : 0x7f15eddab730
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_visability_enum p_gnu_attribute_visability : 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:0x7f15edb786d0
SgInitializedName
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eeb5d0c0
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47b28
Sg_File_Info* p_endOfConstruct : 0x7f15edb47b80
AttachedPreprocessingInfoType* p_attachedPreprocessingInfoPtr : 0
AstAttributeMechanism* p_attributeMechanism : 0
bool p_containsTransformationToSurroundingWhitespace : 0
SgName p_name : loop_body
std::string p_microsoft_uuid_string :
SgType* p_typeptr : 0x7f15ee2d0e90
SgInitializer* p_initptr : 0
SgInitializedName* p_prev_decl_item : 0
bool p_is_initializer : 1
SgDeclarationStatement* p_declptr : 0x7f15ed183c70
SgStorageModifier* p_storageModifier : 0x21a3a70
SgScopeStatement* p_scope : 0x7f15eddab730
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_visability_enum p_gnu_attribute_visability : 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:0x7f15eddab730
SgFunctionDefinition
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed183c70
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47bd8
Sg_File_Info* p_endOfConstruct : 0x7f15edb47c30
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 : 0x7f15efb1a290
SgTypeTable* p_type_table : 0x136fd30
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgBasicBlock* p_body : 0x7f15ede40b00
std::map<SgNode*,int> p_scope_number_list : []

pointer:0x7f15ede40b00
SgBasicBlock
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15eddab730
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47918
Sg_File_Info* p_endOfConstruct : 0x7f15edb47970
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 : 0x7f15efb1a160
SgTypeTable* p_type_table : 0x136fd08
std::set<SgSymbol*> p_type_elaboration_list : []
std::set<SgSymbol*> p_hidden_type_list : []
std::set<SgSymbol*> p_hidden_declaration_list : []
SgStatementPtrList p_statements : [0x7f15ed4ec550]
std::string p_asm_function_body :

pointer:0x7f15ed4ec550
SgExprStatement
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:0

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ede40b00
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb48628
Sg_File_Info* p_endOfConstruct : 0x7f15edb48680
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 : 0x7f15edcd7390

pointer:0x7f15edcd7390
SgFunctionCallExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 19:23
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed4ec550
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb48578
Sg_File_Info* p_endOfConstruct : 0x7f15edb485d0
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 : 0x7f15edb48310
SgExpression* p_function : 0x7f15edd74240
SgExprListExp* p_args : 0x7f15edd0e488
SgType* p_expression_type : 0x7f15ef5a4290
bool p_uses_operator_syntax : 0

pointer:0x7f15edd74240
SgFunctionRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 19:16
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: void(struct ::RAJA::seq_exec, ::RAJA::Index_type, ::RAJA::Index_type, class)

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7390
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47e40
Sg_File_Info* p_endOfConstruct : 0x7f15edb47e98
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 : 0x7f15edb47c88
SgFunctionSymbol* p_symbol_i : 0x201cb30
SgFunctionType* p_function_type : 0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e488
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edcd7390
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb48470
Sg_File_Info* p_endOfConstruct : 0x7f15edb484c8
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 : 0x7f15edb48208
SgExpressionPtrList p_expressions : [0x7f15ed51b110, 0x7f15edd41bd8, 0x7f15edd41c40, 0x7f15edd41ca8]

pointer:0x7f15ed51b110
SgConstructorInitializer
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 19:25
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: struct ::RAJA::seq_exec

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e488
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47ff8
Sg_File_Info* p_endOfConstruct : 0x7f15edb47f48
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 : 0x7f15edb480a8
bool p_is_explicit_cast : 1
bool p_is_braced_initialized : 0
SgMemberFunctionDeclaration* p_declaration : 0
SgExprListExp* p_args : 0x7f15edd0e420
SgType* p_expression_type : 0x7f15ee2d0e10
bool p_need_name : 1
bool p_need_qualifier : 0
bool p_need_parenthesis_after_name : 1
bool p_associated_class_unknown : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd0e420
SgExprListExp
compilerGenerated 0:0
IsTransformation:0
IsOutputInCodeGeneration:1
Expression type: int

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15ed51b110
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb47ef0
Sg_File_Info* p_endOfConstruct : 0x7f15edb47de8
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 : 0x7f15edb47fa0
SgExpressionPtrList p_expressions : []

pointer:0x7f15edd41bd8
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 20:20
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e488
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb48158
Sg_File_Info* p_endOfConstruct : 0x7f15edb481b0
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 : 0x7f15edb48050
SgVariableSymbol* p_symbol : 0x215c490
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd41c40
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 20:27
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: ::RAJA::Index_type

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e488
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb48260
Sg_File_Info* p_endOfConstruct : 0x7f15edb482b8
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 : 0x7f15edb47ce0
SgVariableSymbol* p_symbol : 0x215c4c0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

pointer:0x7f15edd41ca8
SgVarRefExp
/home/liao6/workspace/github/rose-ast.git/lambda.cxx 21:20
IsTransformation:0
IsOutputInCodeGeneration:0
Expression type: class

[Click here to go to the parent node](#)

SgNode* p_parent : 0x7f15edd0e488
bool p_isModified : 0
bool p_containsTransformation : 0
\$CLASSNAME* p_freepointer : 0xfffffffffffff
Sg_File_Info* p_startOfConstruct : 0x7f15edb48368
Sg_File_Info* p_endOfConstruct : 0x7f15edb483c0
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 : 0x7f15edb48100
SgVariableSymbol* p_symbol : 0x215c4f0
SgExpression* p_originalExpressionTree : 0
int p_name_qualification_length : 0
bool p_type_elaboration_required : 0
bool p_global_qualification_required : 0

