

pointer:0x7f7d14131010  
SgSourceFile

root node

SgNode\* p\_parent : 0x123b2f0  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7f7d142e4068  
SgStringList p\_originalCommandLineArgumentList : [pdfGenerator, -c, typedefType.c]  
int p\_verbose : 0  
bool p\_output\_warnings : 0  
bool p\_C\_only : 1  
bool p\_UPC\_only : 0  
bool p\_UPCxx\_only : 0  
int p\_upc\_threads : 0  
bool p\_C89\_only : 0  
bool p\_C89\_gnu\_only : 0  
bool p\_C99\_only : 1  
bool p\_C99\_gnu\_only : 1  
bool p\_Cxx\_only : 0  
bool p\_C11\_only : 0  
bool p\_C11\_gnu\_only : 0  
bool p\_Cxx0x\_only : 0  
bool p\_Cxx11\_only : 0  
bool p\_Cxx11\_gnu\_only : 0  
bool p\_C14\_only : 0  
bool p\_C14\_gnu\_only : 0  
bool p\_Cxx14\_only : 0  
bool p\_Cxx14\_gnu\_only : 0  
bool p\_Fortran\_only : 0  
bool p\_F77\_only : 0  
bool p\_F90\_only : 0  
bool p\_F95\_only : 0  
bool p\_F2003\_only : 0  
bool p\_F2008\_only : 0  
bool p\_CoArrayFortran\_only : 0  
bool p\_Java\_only : 0  
bool p\_X10\_only : 0  
bool p\_PHP\_only : 0  
bool p\_Python\_only : 0  
bool p\_Cuda\_only : 0  
bool p\_OpenCL\_only : 0  
bool p\_requires\_C\_preprocessor : 0  
bool p\_binary\_only : 0  
SgFile::outputFormatOption\_enum p\_inputFormat : 2  
SgFile::outputFormatOption\_enum p\_outputFormat : 2  
SgFile::outputFormatOption\_enum p\_backendCompileFormat : 2  
bool p\_fortran\_implicit\_none : 0  
bool p\_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:0x7f7d1425f120  
SgGlobal  
/home/liao6/workspace/github/rose-ast.git/typedefType.c 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0x7f7d14131010  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7f7d142e40c0  
Sg\_File\_Info\* p\_endOfConstruct : 0x7f7d142e4118  
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 : 0x7f7d14214140  
SgTypeTable\* p\_type\_table : 0x1275d38  
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>: [0x7f7d13f86010, 0x7f7d13a80010, 0x7f7d13a803e0, 0x7f7d13a8

pointer:0x7f7d13f8e0b0  
SgTypedefDeclaration  
/home/liao6/workspace/github/rose-ast.git/typedefType.c 1:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: L1R

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SgNode\* p\_parent : 0x7f7d1425f120  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7f7d12f7ecd0  
Sg\_File\_Info\* p\_endOfConstruct : 0x7f7d12f7ed28  
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 : 0x7f7d13f8e0b0  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgName p\_name : INDEX\_TYPE  
SgType\* p\_base\_type : 0x7f7d1384f010  
SgTypedefType\* p\_type : 0x7f7d13f443b8  
SgDeclarationStatement\* p\_declaration : 0  
SgSymbol\* p\_parent\_scope : 0  
bool p\_typedefBaseTypeContainsDefiningDeclaration : 0  
SgScopeStatement\* p\_scope : 0x7f7d1425f120  
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:0x7f7d12de3010  
SgVariableDeclaration  
/home/liao6/workspace/github/rose-ast.git/typedefType.c 4:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_global\_\_variable\_declaration\_\_variable\_type\_L1R\_variable\_name\_i

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SgNode\* p\_parent : 0x7f7d1425f120  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7f7d12f7eee0  
Sg\_File\_Info\* p\_endOfConstruct : 0x7f7d12f7ef38  
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 : 0x7f7d12de3010  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0x7f7d12fc8dd8]  
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:0x7f7d12fc8dd8  
SgInitializedName  
/home/liao6/workspace/github/rose-ast.git/typedefType.c 4:1  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0x7f7d12de3010  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7f7d12f7ee88  
Sg\_File\_Info\* p\_endOfConstruct : 0x7f7d12f7ee30  
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 : 0x7f7d13f443b8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0x7f7d12cc5010  
SgStorageModifier\* p\_storageModifier : 0x1caf748  
SgScopeStatement\* p\_scope : 0x7f7d1425f120  
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

