

pointer:0xb77e7008  
SgSourceFile

root node

SgNode\* p\_parent : 0x89b9138  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x89c7ba8  
SgStringList p\_originalCommandLineArgumentList : <too long>: <too long>: [./../extractMPISkeleton, -l/home/dagit/mpiskel/extractMPISkeleton  
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\_C99\_only : 0  
bool p\_Cxx\_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\_CoArrayFortran\_only : 0  
bool p\_Java\_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\_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\_instruction\_addresses : 1  
bool p\_unparse\_raw\_memory\_contents : 1  
bool p\_unparse\_binary\_file\_format : 1  
SgFile::outputLanguageOption\_enum p\_outputLanguage : 2  
std::string p\_sourceFileNameWithPath : /home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c  
std::string p\_sourceFileNameWithoutPath : io.c  
std::string p\_unparse\_output\_filename :  
bool p\_useBackendOnly : 0  
bool p\_compileOnly : 0  
std::string p\_savedEdgCommandLine : <too long>: <too long>: ../extractMPISkeleton -l/home/dagit/mpiskel/extractMPISkeleton/te  
bool p\_no\_implicit\_templates : 0  
bool p\_no\_implicit\_inline\_templates : 0  
bool p\_skip\_commentsAndDirectives : 0  
bool p\_collectAllCommentsAndDirectives : 0  
bool p\_unparseHeaderFiles : 0  
ROSEAttributesListContainerPtr p\_preprocessorDirectivesAndCommentsList : 0x8cff720  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_KCC\_fortran\_to\_C : 0

pointer:0xb77c6008  
SgGlobal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb77e7008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x89c7bd4  
Sg\_File\_Info\* p\_endOfConstruct : 0x89c7c2c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87a30  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 0  
SgSymbolTable\* p\_symbol\_table : 0x89d2790  
SgTypeTable\* p\_type\_table : 0x89e6018  
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>: [0xb774e008, 0xb774e1f0, 0xb774e3d8, 0xb774e5c0, 0xb774e7a

AstAttributes:  
APIDep: 0x8f88780  
PragmaAttribute: PragmaAttribute undef

pointer:0xb74303f8  
SgFunctionDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 5:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: main\_0xb74303f8

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SgNode\* p\_parent : 0xb77c6008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e69ccc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e69ca0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0x8d9c520  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f879f0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2566  
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 : 0xb74303f8  
SgDeclarationStatement\* p\_firstNondefiningDeclaration : 0  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgName p\_name : main  
SgFunctionParameterList\* p\_parameterList : 0xb73e24d0  
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 : 0x8e46958  
SgFunctionDefinition\* p\_definition : 0xb738e008  
bool p\_oldStyleDefinition : 0  
SgScopeStatement\* p\_scope : 0xb77c6008  
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

AstAttributes:  
APIDep: 0x8ff35a8  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73e24d0  
SgFunctionParameterList  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 5:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: L1995R

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SgNode\* p\_parent : 0xb74303f8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e69f8c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e69f60  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87b98  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2567  
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 : 0xb73e24d0  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgInitializedNamePtrList p\_args : [0xb73bab08, 0xb73babac]

AstAttributes:  
APIDep: 0x8f87b68  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bab08  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 5:10  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb73e24d0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a068  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a094  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad418  
SgName p\_name : argc  
SgType\* p\_typeptr : 0x8bcb1f8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb74303f8  
SgStorageModifier\* p\_storageModifier : 0x8e5fae0  
SgScopeStatement\* p\_scope : 0xb738e008  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f87b30  
ssa\_varname\_KeyTag: 0x8fad3f0

pointer:0xb73babac  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 5:20  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb73e24d0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a0ec  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a0c0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad480  
SgName p\_name : argv  
SgType\* p\_typeptr : 0x8bd80fc  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb74303f8  
SgStorageModifier\* p\_storageModifier : 0x8e5faf8  
SgScopeStatement\* p\_scope : 0xb738e008  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f87cd8  
ssa\_varname\_KeyTag: 0x8fad458

pointer:0xb738e008  
SgFunctionDefinition  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 5:1  
IsTransformation:0  
IsOutputInCodeGeneration:1

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SgNode\* p\_parent : 0xb74303f8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a010  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a03c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8faeed8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2568  
SgSymbolTable\* p\_symbol\_table : 0x89d30a0  
SgTypeTable\* p\_type\_table : 0x89e6144  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgBasicBlock\* p\_body : 0xb736c008  
std::map<SgNode\*,int> p\_scope\_number\_list : [0xb7347008->3, 0xb736c008->2, 0xb738e008->1]

AstAttributes:  
APIDep: 0x8ff3840  
PragmaAttribute: PragmaAttribute undef

pointer:0xb736c008  
SgBasicBlock  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 6:1  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb738e008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a144  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a118  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87938  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2569  
SgSymbolTable\* p\_symbol\_table : 0x89d3140  
SgTypeTable\* p\_type\_table : 0x89e6158  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgStatementPtrList p\_statements : <too long>: <too long>: [0xb75a567c, 0xb75a57d8, 0x8eb61e8, 0x8eb6214, 0x8eb6240, 0xb7347008  
std::string p\_asm\_function\_body :

AstAttributes:  
APIDep: 0x8ff3860  
PragmaAttribute: PragmaAttribute undef



pointer:0xb75a567c  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 7:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_i\_variable\_name\_main\_0xb74303f8\_\_scope\_\_\_\_SgSS2\_\_\_\_scope\_\_r

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SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a1c8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a1f4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ff3630  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2570  
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 : 0xb75a567c  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73bac50]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8ff3ae0  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bac50  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 7:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a567c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a220  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a24c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad4e8  
SgName p\_name : rank  
SgType\* p\_typeptr : 0x8bcb1f8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb75589c0  
SgStorageModifier\* p\_storageModifier : 0x8e5fb10  
SgScopeStatement\* p\_scope : 0xb736c008  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8ff3a90  
ssa\_varname\_KeyTag: 0x8fad4c0

pointer:0xb75a57d8  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 8:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_MPI\_Commi\_\_typedef\_declaration\_variable\_name\_main\_0xb74303f8\_\_

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SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a2d0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a2fc  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ff3a70  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2571  
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 : 0xb75a57d8  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73bacf4]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8ff39a8  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bacf4  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 8:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a57d8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a328  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a354  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad550  
SgName p\_name : new\_comm  
SgType\* p\_typeptr : 0x8c79fd8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7558ae8  
SgStorageModifier\* p\_storageModifier : 0x8e5fb28  
SgScopeStatement\* p\_scope : 0xb736c008  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8ff39d8  
ssa\_varname\_KeyTag: 0x8fad528

pointer:0x8eb61e8  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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

SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a170  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a430  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fefc40  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2572  
SgExpression\* p\_expression : 0x8e82548

AstAttributes:  
APIDep: 0x8ff9d48  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e82548  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8eb61e8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a50c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a538  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87ac8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73ae0  
SgExprListExp\* p\_args : 0x8e8f070  
SgType\* p\_expression\_type : 0x89f9188

AstAttributes:  
APIDep: 0x8f87c30

pointer:0x8e73ae0  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(int \*, char \*\*\*)

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

SgNode\* p\_parent : 0x8e82548  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a4b4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a4e0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b456c0  
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:0x8e8f070  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e82548  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a488  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a45c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8ea96b0, 0x8ea96e4]



pointer:0x8ea96b0  
SgAddressOfOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:15  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int \*

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

SgNode\* p\_parent : 0x8e8f070  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a614  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a640  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8faeb38  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_operand\_i : 0x8e9bbd8  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 0

AstAttributes:  
APIDep: 0x8ffa1e8

pointer:0x8e9bbd8  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:15  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8ea96b0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a5bc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a5e8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad5b8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5590  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad590

pointer:0x8ea96e4  
SgAddressOfOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:22  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char \*\*\*

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

SgNode\* p\_parent : 0x8e8f070  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a6c4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a6f0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87bd8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_operand\_i : 0x8e9bc10  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 0

AstAttributes:  
APIDep: 0x8faeef8

pointer:0x8e9bc10  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 10:22  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char \*\*

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

SgNode\* p\_parent : 0x8ea96e4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a66c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a698  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad620  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55a8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad5f8

pointer:0x8eb6214  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 11:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a19c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a590  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87d40  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2573  
SgExpression\* p\_expression : 0x8e8257c

AstAttributes:  
APIDep: 0x8ff3828  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e8257c  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 11:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8eb6214  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a7cc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a7f8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87d20  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73b1c  
SgExprListExp\* p\_args : 0x8e8f0a4  
SgType\* p\_expression\_type : 0x89f8688

AstAttributes:  
APIDep: 0x8ff36d8

pointer:0x8e73b1c  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 11:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(MPI\_Comm , int \*)

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SgNode\* p\_parent : 0x8e8257c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a774  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a7a0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b452a0  
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:0x8e8f0a4  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 11:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8257c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a748  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a71c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9bc48, 0x8ea9718]



pointer:0x8e9bc48  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 11:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f0a4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a87c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a8a8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad688  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce45a0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f87d90  
ssa\_varname\_KeyTag: 0x8fad660

pointer:0x8ea9718  
SgAddressOfOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 11:36  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int \*

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SgNode\* p\_parent : 0x8e8f0a4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a92c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a958  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87dc0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_operand\_i : 0x8e9bc80  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 0

AstAttributes:  
APIDep: 0x8ff37d8

pointer:0x8e9bc80  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 11:36  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ea9718  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a8d4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a900  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad6f0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55c0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad6c8

pointer:0x8eb6240  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a3d8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a850  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ff3758  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2574  
SgExpression\* p\_expression : 0x8e825b0

AstAttributes:  
APIDep: 0x8ff3740  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e825b0  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb6240  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a984  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6aa8c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ff3668  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73b58  
SgExprListExp\* p\_args : 0x8e8f0d8  
SgType\* p\_expression\_type : 0x89f8788

AstAttributes:  
APIDep: 0x8ff3650

pointer:0x8e73b58  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(MPI\_Comm , int , int , MPI\_Comm \*)

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

SgNode\* p\_parent : 0x8e825b0  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a9dc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6aa08  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b45300  
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:0x8e8f0d8  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e825b0  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6aa60  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a9b0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9bcb8, 0x8ec0e38, 0x8d3893c, 0x8ea974c]

pointer:0x8e9bcb8  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:21  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f0d8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6aae4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ab10  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad758  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce45a0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f61980  
ssa\_varname\_KeyTag: 0x8fad730



pointer:0x8ec0e38  
SgEqualityOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:42  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8f0d8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6abc0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6abec  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61a18  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6ac9c  
SgExpression\* p\_lhs\_operand\_i : 0x8e9bcf0  
SgExpression\* p\_rhs\_operand\_i : 0x8d38908  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0

AstAttributes:  
APIDep: 0x8f61a00

pointer:0x8e9bcf0  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:37  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ec0e38  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ac18  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ac44  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad7c0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55c0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad798

pointer:0x8d38908  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:45  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ec0e38  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6acc8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6acf4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

pointer:0x8d3893c  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:48  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8f0d8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ab3c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ac70  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ff3878  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

AstAttributes:  
APIDep: 0x8f61a70

pointer:0x8ea974c  
SgAddressOfOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:51  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm \*

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SgNode\* p\_parent : 0x8e8f0d8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ad20  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ad4c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ff3900  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_operand\_i : 0x8e9bd28  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 0

AstAttributes:  
APIDep: 0x8ff38e8

pointer:0x8e9bd28  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 12:51  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8ea974c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ab68  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ab94  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad828  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55d8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad800

pointer:0xb7347008  
SgIfStmt  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 13:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b16c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b42c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61b08  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2575  
SgSymbolTable\* p\_symbol\_table : 0x89d31e0  
SgTypeTable\* p\_type\_table : 0x89e616c  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgStatement\* p\_conditional : 0x8eb626c  
SgStatement\* p\_true\_body : 0x8eb6298  
SgStatement\* p\_false\_body : 0x8eb62c4  
SgLabelRefExp\* p\_else\_numeric\_label : 0  
std::string p\_string\_label :  
SgLabelRefExp\* p\_end\_numeric\_label : 0  
bool p\_has\_end\_statement : 0  
bool p\_use\_then\_keyword : 0  
bool p\_is\_else\_if\_statement : 0

AstAttributes:  
APIDep: 0x8f61aa8  
PragmaAttribute: PragmaAttribute undef

pointer:0x8eb626c  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 13:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7347008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6aa34  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6aab8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61be8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2576  
SgExpression\* p\_expression : 0x8ec0e70

AstAttributes:

APIDep: 0x8f61af0

PragmaAttribute: PragmaAttribute undef



pointer:0x8ec0e70  
SgEqualityOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 13:14  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb626c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6adfc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ae28  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6aed8  
SgExpression\* p\_lhs\_operand\_i : 0x8e9bd60  
SgExpression\* p\_rhs\_operand\_i : 0x8d38970  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0

pointer:0x8e9bd60  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 13:9  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ec0e70  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ae54  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ae80  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad890  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55c0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad868

pointer:0x8d38970  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 13:17  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ec0e70  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6af04  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6af30  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

pointer:0x8eb6298  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 14:2  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7347008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a564  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ada4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61a88  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2577  
SgExpression\* p\_expression : 0x8e825e4

AstAttributes:  
APIDep: 0x8f61cc0  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e825e4  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 14:2  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb6298  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b114  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b140  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61ca0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73b94  
SgExprListExp\* p\_args : 0x8e8f10c  
SgType\* p\_expression\_type : 0x8e46998

AstAttributes:  
APIDep: 0x8ff3778

pointer:0x8e73b94  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 14:2  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(MPI\_Comm , MPI\_Comm )

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SgNode\* p\_parent : 0x8e825e4  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6af88  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6af5c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8e58a20  
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:0x8e8f10c  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 14:2  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e825e4  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6aeac  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ad78  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9bd98, 0x8e9bdd0]

pointer:0x8e9bd98  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 14:13  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f10c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b064  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b090  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad8f8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce45a0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad8d0



pointer:0x8e9bdd0  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 14:29  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f10c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b0bc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b0e8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad960  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55d8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad938

pointer:0x8eb62c4  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 16:2  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7347008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6a824  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b198  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61d18  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2578  
SgExpression\* p\_expression : 0x8e82618

AstAttributes:  
APIDep: 0x8f61c38  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e82618  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 16:2  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb62c4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b3d4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b400  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61bb8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73bd0  
SgExprListExp\* p\_args : 0x8e8f140  
SgType\* p\_expression\_type : 0x8e469d8

AstAttributes:  
APIDep: 0x8f61c08

pointer:0x8e73bd0  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 16:2  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(MPI\_Comm , MPI\_Comm )

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SgNode\* p\_parent : 0x8e82618  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b248  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b21c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8e58a38  
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:0x8e8f140  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 16:2  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e82618  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b1f0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b1c4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9be08, 0x8e9be40]

pointer:0x8e9be08  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 16:12  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f140  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b324  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b350  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fad9c8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce45a0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fad9a0

pointer:0x8e9be40  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 16:28  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f140  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b37c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b3a8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fada30  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55d8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fada08

pointer:0x8eb62f0  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 18:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6add0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b4b0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61de8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2579  
SgExpression\* p\_expression : 0x8e8264c

AstAttributes:  
APIDep: 0x8f61dd0  
PragmaAttribute: PragmaAttribute undef



pointer:0x8e8264c  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 18:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb62f0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b58c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b5b8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61d58  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73c0c  
SgExprListExp\* p\_args : 0x8e8f174  
SgType\* p\_expression\_type : 0x89f91c8

AstAttributes:  
APIDep: 0x8f61c68

pointer:0x8e73c0c  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 18:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int()

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SgNode\* p\_parent : 0x8e8264c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b534  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b560  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b456d8  
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:0x8e8f174  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 18:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8264c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b508  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b4dc  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : []

pointer:0x8ecec48  
SgReturnStmt  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 19:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b5e4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b484  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd188  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2580  
SgExpression\* p\_expression : 0x8d389a4

AstAttributes:  
PragmaAttribute: PragmaAttribute undef

pointer:0x8d389a4  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 19:12  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ecec48  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b6c0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b6ec  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

pointer:0xb74309b0  
SgFunctionDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 23:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: L1991R\_\_L1992R

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SgNode\* p\_parent : 0xb77c6008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e69fe4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e69fb8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0x8d9c3e0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61fe0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2581  
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 : 0xb74309b0  
SgDeclarationStatement\* p\_firstNondefiningDeclaration : 0xb74305e0  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgName p\_name : master\_io  
SgFunctionParameterList\* p\_parameterList : 0xb73e2854  
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 : 0x8e46998  
SgFunctionDefinition\* p\_definition : 0xb738e09c  
bool p\_oldStyleDefinition : 0  
SgScopeStatement\* p\_scope : 0xb77c6008  
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

AstAttributes:  
APIDep: 0x8f88718  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73e2854  
SgFunctionParameterList  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 23:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: L1992R

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SgNode\* p\_parent : 0xb74309b0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b458  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6a404  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f620e0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2582  
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 : 0xb73e2854  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgInitializedNamePtrList p\_args : [0xb73bad98, 0xb73bae3c]

AstAttributes:  
APIDep: 0x8f62100  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bad98  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 23:15  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb73e2854  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b718  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b744  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fada98  
SgName p\_name : master\_comm  
SgType\* p\_typeptr : 0x8c79fd8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb74309b0  
SgStorageModifier\* p\_storageModifier : 0x8e5fb40  
SgScopeStatement\* p\_scope : 0xb738e09c  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f62088  
ssa\_varname\_KeyTag: 0x8fada70



pointer:0xb73bae3c  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 23:37  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb73e2854  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b79c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b770  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadb00  
SgName p\_name : comm  
SgType\* p\_typeptr : 0x8c79fd8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb74309b0  
SgStorageModifier\* p\_storageModifier : 0x8e5fb58  
SgScopeStatement\* p\_scope : 0xb738e09c  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadad8

pointer:0xb738e09c  
SgFunctionDefinition  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 23:1  
IsTransformation:0  
IsOutputInCodeGeneration:1

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SgNode\* p\_parent : 0xb74309b0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b694  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b668  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61eb0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2583  
SgSymbolTable\* p\_symbol\_table : 0x89d3280  
SgTypeTable\* p\_type\_table : 0x89e6180  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgBasicBlock\* p\_body : 0xb736c090  
std::map<SgNode\*,int> p\_scope\_number\_list : <too long>: <too long>: [0xb7323008->3, 0xb7323098->5, 0xb736c090->2, 0xb736c118->4]

AstAttributes:  
APIDep: 0x8f889b0  
PragmaAttribute: PragmaAttribute undef

pointer:0xb736c090  
SgBasicBlock  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 24:1  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb738e09c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b7f4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b7c8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61ef0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2584  
SgSymbolTable\* p\_symbol\_table : 0x89d3320  
SgTypeTable\* p\_type\_table : 0x89e6194  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgStatementPtrList p\_statements : <too long>: <too long>: [0xb75a5934, 0xb75a5a90, 0xb75a5bec, 0xb75a5d48, 0xb75a5ea4, 0x8eb63  
std::string p\_asm\_function\_body :

AstAttributes:  
APIDep: 0x8f88998  
PragmaAttribute: PragmaAttribute undef

pointer:0xb75a5934  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 25:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_i\_variable\_name\_L1991R\_\_L1992R\_\_scope\_\_\_\_SgSS2\_\_\_\_scope\_\_i

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SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b878  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b8a4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd248  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2585  
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 : 0xb75a5934  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73baee0]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73baee0  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 25:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a5934  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b8d0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b8fc  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadb68  
SgName p\_name : i  
SgType\* p\_typeptr : 0x8bcb1f8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7558c10  
SgStorageModifier\* p\_storageModifier : 0x8e5fb70  
SgScopeStatement\* p\_scope : 0xb736c090  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadb40

pointer:0xb75a5a90  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 25:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_i\_variable\_name\_L1991R\_\_L1992R\_\_scope\_\_\_\_SgSS2\_\_\_\_scope\_\_j

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SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b980  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b9ac  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd288  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2586  
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 : 0xb75a5a90  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73baf84]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73baf84  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 25:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a5a90  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b9d8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ba04  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadbd0  
SgName p\_name : j  
SgType\* p\_typeptr : 0x8bcb1f8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7558d38  
SgStorageModifier\* p\_storageModifier : 0x8e5fb88  
SgScopeStatement\* p\_scope : 0xb736c090  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadba8

pointer:0xb75a5bec  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 25:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_variable\_declaration\_\_variable\_type\_i\_variable\_name\_L1991R\_\_L1992R\_\_scope\_\_\_\_SgSS2\_\_\_\_scope\_\_s

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SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ba88  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bab4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f62340  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2587  
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 : 0xb75a5bec  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73bb028]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f62328  
PragmaAttribute: PragmaAttribute undef



pointer:0xb73bb028  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 25:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a5bec  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bae0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bb0c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadc38  
SgName p\_name : size  
SgType\* p\_typeptr : 0x8bcb1f8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7558e60  
SgStorageModifier\* p\_storageModifier : 0x8e5fba0  
SgScopeStatement\* p\_scope : 0xb736c090  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f622f0  
ssa\_varname\_KeyTag: 0x8fadc10

pointer:0xb75a5d48  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 26:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_\_Ab\_c\_index\_256\_Ae\_\_variable\_name\_L1991R\_\_L1992R\_\_scope\_\_

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

SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bbbbc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bb90  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd2e8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2588  
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 : 0xb75a5d48  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73bb0cc]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bb0cc  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 26:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a5d48  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bc40  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bc6c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadca0  
SgName p\_name : buf  
SgType\* p\_typeptr : 0x8cd40b8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7558f88  
SgStorageModifier\* p\_storageModifier : 0x8e5fbb8  
SgScopeStatement\* p\_scope : 0xb736c090  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadc78

pointer:0xb75a5ea4  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 27:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_L20R\_variable\_name\_L1991R\_\_L1992R\_\_scope\_\_\_\_SgSS2\_\_\_\_scope\_\_\_\_

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

SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bcf0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bd1c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd328  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2589  
unsigned int p\_decl\_attributes : 0  
std::string p\_linkage :  
SgDeclarationModifier p\_declarationModifier : <too long>: <too long>: SgDeclarationModifier(isUnknown() = false isDefault() = false isFriend() = false)  
bool p\_nameOnly : 1  
bool p\_forward : 0  
bool p\_externBrace : 0  
bool p\_skipElaborateType : 0  
SgDeclarationStatement\* p\_definingDeclaration : 0  
SgDeclarationStatement\* p\_firstNondefiningDeclaration : 0xb75a5ea4  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73bb170]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bb170  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 27:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a5ea4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bd48  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bd74  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadd08  
SgName p\_name : status  
SgType\* p\_typeptr : 0x8c79f60  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb75590b0  
SgStorageModifier\* p\_storageModifier : 0x8e5fbd0  
SgScopeStatement\* p\_scope : 0xb736c090  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadce0

pointer:0x8eb631c  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 29:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b84c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6be50  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61f48  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2590  
SgExpression\* p\_expression : 0x8e82680

AstAttributes:  
APIDep: 0x8f621a8  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e82680  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 29:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb631c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bf2c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bf58  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f61e58  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73c48  
SgExprListExp\* p\_args : 0x8e8f1a8  
SgType\* p\_expression\_type : 0x89f8648

AstAttributes:  
APIDep: 0x8f61e08

pointer:0x8e73c48  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 29:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(MPI\_Comm , int \*)

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SgNode\* p\_parent : 0x8e82680  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bed4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bf00  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b45288  
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:0x8e8f1a8  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 29:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e82680  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bea8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6be7c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9be78, 0x8ea9780]

pointer:0x8e9be78  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 29:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f1a8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bfdc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c008  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadd70  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55f0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f62020  
ssa\_varname\_KeyTag: 0x8fadd48

pointer:0x8ea9780  
SgAddressOfOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 29:33  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int \*

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

SgNode\* p\_parent : 0x8e8f1a8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c08c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c0b8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f62150  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_operand\_i : 0x8e9beb0  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 0

AstAttributes:  
APIDep: 0x8f620b0

pointer:0x8e9beb0  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 29:33  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ea9780  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c034  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c060  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadd8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5650  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8faddb0

pointer:0xb7323008  
SgForStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6be24  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bf84  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87eb8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2591  
SgSymbolTable\* p\_symbol\_table : 0x89d33c0  
SgTypeTable\* p\_type\_table : 0x89e61a8  
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 : 0x8eda080  
SgStatement\* p\_test : 0x8eb6374  
SgExpression\* p\_increment : 0x8f02218  
SgStatement\* p\_loop\_body : 0xb736c118  
SgStatement\* p\_else\_body : 0  
std::string p\_string\_label :

AstAttributes:  
APIDep: 0x8f88960  
PragmaAttribute: PragmaAttribute undef

pointer:0x8eda080  
SgForInitStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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

SgNode\* p\_parent : 0xb7323008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6bfb0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c0e4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87f78  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2592  
SgStatementPtrList p\_init\_stmt : [0x8eb6348]

AstAttributes:  
APIDep: 0x8f88c40  
PragmaAttribute: PragmaAttribute undef

pointer:0x8eb6348  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:10  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0x8eda080  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c110  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c270  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87f98  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2593  
SgExpression\* p\_expression : 0x8ee6c20

AstAttributes:  
APIDep: 0x8f88c58  
PragmaAttribute: PragmaAttribute undef

pointer:0x8ee6c20  
SgAssignOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:11  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb6348  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c244  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c218  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c29c  
SgExpression\* p\_lhs\_operand\_i : 0x8e9bee8  
SgExpression\* p\_rhs\_operand\_i : 0x8d389d8  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0



pointer:0x8e9bee8  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:11  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ee6c20  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c194  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c1c0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fade40  
bool p\_need\_paren : 0  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c1ec  
SgVariableSymbol\* p\_symbol : 0x8ce5638  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fade18

pointer:0x8d389d8  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:12  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ee6c20  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c2c8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c2f4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 1  
std::string p\_valueString : 1

pointer:0x8eb6374  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7323008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c378  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c34c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87fd0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2594  
SgExpression\* p\_expression : 0x8ef4750

AstAttributes:  
APIDep: 0x8f88c70  
PragmaAttribute: PragmaAttribute undef

pointer:0x8ef4750  
SgLessOrEqualOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:16  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8eb6374  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c428  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c454  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c504  
SgExpression\* p\_lhs\_operand\_i : 0x8e9bf20  
SgExpression\* p\_rhs\_operand\_i : 0x8d38a0c  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0

pointer:0x8e9bf20  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:15  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8ef4750  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c480  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c4ac  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadea8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5638  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fade80

pointer:0x8d38a0c  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:18  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ef4750  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c530  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c55c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 2  
std::string p\_valueString : 2

pointer:0x8f02218  
SgPlusPlusOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:22  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0xb7323008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c4d8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c588  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f882e8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c5b4  
SgExpression\* p\_operand\_i : 0x8e9bf58  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 1

AstAttributes:  
APIDep: 0x8f88a28

pointer:0x8e9bf58  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:22  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8f02218  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c3fc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c3d0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadf10  
bool p\_need\_paren : 0  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c3a4  
SgVariableSymbol\* p\_symbol : 0x8ce5638  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadee8



pointer:0xb736c118  
SgBasicBlock  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 30:26  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7323008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c168  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c5e0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87e40  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2595  
SgSymbolTable\* p\_symbol\_table : 0x89d3460  
SgTypeTable\* p\_type\_table : 0x89e61bc  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgStatementPtrList p\_statements : [0xb7323098]  
std::string p\_asm\_function\_body :

AstAttributes:  
APIDep: 0x8f88948  
PragmaAttribute: PragmaAttribute undef

pointer:0xb7323098  
SgForStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:2  
IsTransformation:0  
IsOutputInCodeGeneration:0

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

SgNode\* p\_parent : 0xb736c118  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c664  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c690  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88090  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2596  
SgSymbolTable\* p\_symbol\_table : 0x89d3500  
SgTypeTable\* p\_type\_table : 0x89e61d0  
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 : 0x8eda0b4  
SgStatement\* p\_test : 0x8eb63cc  
SgExpression\* p\_increment : 0x8f0224c  
SgStatement\* p\_loop\_body : 0xb736c1a0  
SgStatement\* p\_else\_body : 0  
std::string p\_string\_label :

AstAttributes:  
APIDep: 0x8f88918  
PragmaAttribute: PragmaAttribute undef

pointer:0x8eda0b4  
SgForInitStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:2  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7323098  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c6bc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c6e8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f87e20  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2597  
SgStatementPtrList p\_init\_stmt : [0x8eb63a0]

AstAttributes:  
APIDep: 0x8f88930  
PragmaAttribute: PragmaAttribute undef

pointer:0x8eb63a0  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:7  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0x8eda0b4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c714  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c874  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f880f0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2598  
SgExpression\* p\_expression : 0x8ee6c58

AstAttributes:  
APIDep: 0x8f888e0  
PragmaAttribute: PragmaAttribute undef

pointer:0x8ee6c58  
SgAssignOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:8  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb63a0  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c848  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c81c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c8a0  
SgExpression\* p\_lhs\_operand\_i : 0x8e9bf90  
SgExpression\* p\_rhs\_operand\_i : 0x8d38a40  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0

pointer:0x8e9bf90  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:8  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8ee6c58  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c798  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c7c4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadf78  
bool p\_need\_paren : 0  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c7f0  
SgVariableSymbol\* p\_symbol : 0x8ce5620  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadf50

pointer:0x8d38a40  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:9  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ee6c58  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c8cc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c8f8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 1  
std::string p\_valueString : 1

pointer:0x8eb63cc  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:2  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7323098  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c97c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c950  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88160  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2599  
SgExpression\* p\_expression : 0x8f0ef00

AstAttributes:  
APIDep: 0x8f88a40  
PragmaAttribute: PragmaAttribute undef



pointer:0x8f0ef00  
SgLessThanOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:13  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb63cc  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ca2c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ca58  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6cb34  
SgExpression\* p\_lhs\_operand\_i : 0x8e9bfc8  
SgExpression\* p\_rhs\_operand\_i : 0x8e9c000  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0

pointer:0x8e9bfc8  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:12  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8f0ef00  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ca84  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cab0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fadfe0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5620  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fadfb8

pointer:0x8e9c000  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:14  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8f0ef00  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cad0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cb08  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae048  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5650  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae020

pointer:0x8f0224c  
SgPlusPlusOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:21  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0xb7323098  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cb60  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cb8c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f881b8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6cbb8  
SgExpression\* p\_operand\_i : 0x8e9c038  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 1

AstAttributes:  
APIDep: 0x8f88a88

pointer:0x8e9c038  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:21  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8f0224c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ca00  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c9d4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae0b0  
bool p\_need\_paren : 0  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6c9a8  
SgVariableSymbol\* p\_symbol : 0x8ce5620  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae088

pointer:0xb736c1a0  
SgBasicBlock  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 31:25  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb7323098  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c76c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cbe4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88038  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2600  
SgSymbolTable\* p\_symbol\_table : 0x89d35a0  
SgTypeTable\* p\_type\_table : 0x89e61e4  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgStatementPtrList p\_statements : [0x8eb63f8, 0x8eb6424]  
std::string p\_asm\_function\_body :

AstAttributes:  
APIDep: 0x8f888c8  
PragmaAttribute: PragmaAttribute undef

pointer:0x8eb63f8  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:6  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c1a0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cc10  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ccc0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f62410  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2601  
SgExpression\* p\_expression : 0x8e826b4

AstAttributes:  
APIDep: 0x8f888b0  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e826b4  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:6  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb63f8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cd18  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ce20  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f62250  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73c84  
SgExprListExp\* p\_args : 0x8e8f1dc  
SgType\* p\_expression\_type : 0x89f7248

AstAttributes:  
APIDep: 0x8f62398



pointer:0x8e73c84  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:6  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(void \*, int , MPI\_Datatype , int , int , MPI\_Comm , MPI\_Status \*)

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SgNode\* p\_parent : 0x8e826b4  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cd44  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cd70  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b44b08  
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:0x8e8f1dc  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:6  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e826b4  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cd9c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ccec  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8d27ee8, 0x8d38a74, 0x8e9c0a8, 0x8e9c0e0, 0x8d38aa8, 0x8e9c118, 0x8ea97b4]

pointer:0x8d27ee8  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: void \*

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SgNode\* p\_parent : 0x8e8f1dc  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ced0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cefc  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88218  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6cf28  
SgExpression\* p\_operand\_i : 0x8e9c070  
SgType\* p\_expression\_type : 0x8bd7e24  
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

AstAttributes:  
APIDep: 0x8f88128

pointer:0x8e9c070  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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SgNode\* p\_parent : 0x8d27ee8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d05c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d088  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae118  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6d0b4  
SgVariableSymbol\* p\_symbol : 0x8ce5668  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae0f0

pointer:0x8d38a74  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:21  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8f1dc  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ce4c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cfac  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88350  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 256  
std::string p\_valueString : 256

AstAttributes:  
APIDep: 0x8f88430

pointer:0x8e9c0a8  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:26  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Datatype

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

SgNode\* p\_parent : 0x8e8f1dc  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ce78  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cea4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae180  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce3f88  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f883e8  
ssa\_varname\_KeyTag: 0x8fae158

pointer:0x8e9c0e0  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:36  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8f1dc  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cf80  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cf54  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae1e8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5620  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f884b8  
ssa\_varname\_KeyTag: 0x8fae1c0

pointer:0x8d38aa8  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:39  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8f1dc  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d030  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d0e0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f885a0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

AstAttributes:  
APIDep: 0x8f88550



pointer:0x8e9c118  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:42  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f1dc  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d004  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cfd8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae250  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce55f0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f88848  
ssa\_varname\_KeyTag: 0x8fae228

pointer:0x8ea97b4  
SgAddressOfOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:55  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Status \*

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SgNode\* p\_parent : 0x8e8f1dc  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d164  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d190  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88890  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_operand\_i : 0x8e9c150  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 0

AstAttributes:  
APIDep: 0x8f88ab8

pointer:0x8e9c150  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 32:55  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Status

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SgNode\* p\_parent : 0x8ea97b4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d10c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d138  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae2b8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5680  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae290

pointer:0x8eb6424  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 33:6  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c1a0  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cc3c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cdc8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd4e8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2602  
SgExpression\* p\_expression : 0x8e826e8

AstAttributes:

FILLET: FilletAttribute

PragmaAttribute: PragmaAttribute undef

pointer:0x8e826e8  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 33:6  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb6424  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d2f0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d1e8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73cc0  
SgExprListExp\* p\_args : 0x8e8f210  
SgType\* p\_expression\_type : 0x89f5008

pointer:0x8e73cc0  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 33:6  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(const char \*\_\_restrict\_\_ , FILE \*\_\_restrict\_\_ )

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SgNode\* p\_parent : 0x8e826e8  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d214  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d240  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b441f0  
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:0x8e8f210  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 33:6  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e826e8  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d1bc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d26c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8d27f2c, 0x8e9c1c0]

pointer:0x8d27f2c  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: const char \*

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SgNode\* p\_parent : 0x8e8f210  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d3a0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d3cc  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6d3f8  
SgExpression\* p\_operand\_i : 0x8e9c188  
SgType\* p\_expression\_type : 0x8bd7df0  
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



pointer:0x8e9c188  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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

SgNode\* p\_parent : 0x8d27f2c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d52c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d558  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae320  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6d584  
SgVariableSymbol\* p\_symbol : 0x8ce5668  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae2f8

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AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae360

pointer:0x8ecec74  
SgReturnStmt  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 37:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c090  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c13c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c320  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd528  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2603  
SgExpression\* p\_expression : 0x8d38adc

AstAttributes:  
PragmaAttribute: PragmaAttribute undef

pointer:0x8d38adc  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 37:12  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8ecec74  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cc68  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6cc94  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

pointer:0xb7430b98  
SgFunctionDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 41:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: L1993R\_\_L1994R

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SgNode\* p\_parent : 0xb77c6008  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b610  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6b63c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0x8d9c2a0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88d20  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2604  
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 : 0xb7430b98  
SgDeclarationStatement\* p\_firstNondefiningDeclaration : 0xb74307c8  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgName p\_name : slave\_io  
SgFunctionParameterList\* p\_parameterList : 0xb73e2980  
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 : 0x8e469d8  
SgFunctionDefinition\* p\_definition : 0xb738e130  
bool p\_oldStyleDefinition : 0  
SgScopeStatement\* p\_scope : 0xb77c6008  
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

AstAttributes:  
APIDep: 0x8f89540  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73e2980  
SgFunctionParameterList  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 41:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: L1994R

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SgNode\* p\_parent : 0xb7430b98  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6b820  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6bdf8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88ed0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2605  
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 : 0xb73e2980  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgInitializedNamePtrList p\_args : [0xb73bb214, 0xb73bb2b8]

AstAttributes:  
APIDep: 0x8f88ea0  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bb214  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 41:14  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb73e2980  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6cdf4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d298  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae3f0  
SgName p\_name : master\_comm  
SgType\* p\_typeptr : 0x8c79fd8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7430b98  
SgStorageModifier\* p\_storageModifier : 0x8e5fbe8  
SgScopeStatement\* p\_scope : 0xb738e130  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f89610  
ssa\_varname\_KeyTag: 0x8fae3c8

pointer:0xb73bb2b8  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 41:36  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb73e2980  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d31c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d2c4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae458  
SgName p\_name : comm  
SgType\* p\_typeptr : 0x8c79fd8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7430b98  
SgStorageModifier\* p\_storageModifier : 0x8e5fc00  
SgScopeStatement\* p\_scope : 0xb738e130  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f88e10  
ssa\_varname\_KeyTag: 0x8fae430



pointer:0xb738e130  
SgFunctionDefinition  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 41:1  
IsTransformation:0  
IsOutputInCodeGeneration:1

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SgNode\* p\_parent : 0xb7430b98  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6c740  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6c924  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88cc8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2606  
SgSymbolTable\* p\_symbol\_table : 0x89d3640  
SgTypeTable\* p\_type\_table : 0x89e61f8  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgBasicBlock\* p\_body : 0xb736c228  
std::map<SgNode\*,int> p\_scope\_number\_list : [0xb736c228->2, 0xb738e130->1]

AstAttributes:  
APIDep: 0x8f89528  
PragmaAttribute: PragmaAttribute undef

pointer:0xb736c228  
SgBasicBlock  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 42:1  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb738e130  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d450  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d47c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88bd8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2607  
SgSymbolTable\* p\_symbol\_table : 0x89d36e0  
SgTypeTable\* p\_type\_table : 0x89e620c  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgStatementPtrList p\_statements : <too long>: <too long>: [0xb75a6000, 0xb75a615c, 0x8eb6450, 0x8eb647c, 0x8eb64a8, 0x8eb64d4,  
std::string p\_asm\_function\_body :

AstAttributes:  
APIDep: 0x8f898b8  
PragmaAttribute: PragmaAttribute undef

pointer:0xb75a6000  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 43:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_\_Ab\_c\_index\_256\_Ae\_\_variable\_name\_L1993R\_\_L1994R\_\_scope\_\_

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SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d500  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d4d4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f89740  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2608  
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 : 0xb75a6000  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73bb35c]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f89340  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bb35c  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 43:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a6000  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d5dc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d5b0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae4c0  
SgName p\_name : buf  
SgType\* p\_typeptr : 0x8cd40b8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb75591d8  
SgStorageModifier\* p\_storageModifier : 0x8e5fc18  
SgScopeStatement\* p\_scope : 0xb736c228  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f89328  
ssa\_varname\_KeyTag: 0x8fae498

pointer:0xb75a615c  
SgVariableDeclaration  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 44:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_variable\_declaration\_\_variable\_type\_i\_variable\_name\_L1993R\_\_L1994R\_\_scope\_\_\_\_SgSS2\_\_\_\_scope\_\_r

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SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d660  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d68c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f89080  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2609  
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 : 0xb75a615c  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0xb73bb400]  
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  
unsigned long p\_gnu\_extension\_alignment : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 1  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f89068  
PragmaAttribute: PragmaAttribute undef

pointer:0xb73bb400  
SgInitializedName  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 44:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb75a615c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d6b8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d6e4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae528  
SgName p\_name : rank  
SgType\* p\_typeptr : 0x8bcb1f8  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0xb7559300  
SgStorageModifier\* p\_storageModifier : 0x8e5fc30  
SgScopeStatement\* p\_scope : 0xb736c228  
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]  
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 :  
unsigned long int p\_gnu\_attribute\_alignment : 0  
SgDeclarationModifier::gnu\_declaration\_visibility\_enum p\_gnu\_attribute\_visibility : 0  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0

AstAttributes:  
APIDep: 0x8f89030  
ssa\_varname\_KeyTag: 0x8fae500

pointer:0x8eb6450  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 46:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d424  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d7c0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88c88  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2610  
SgExpression\* p\_expression : 0x8e8271c

AstAttributes:  
APIDep: 0x8f89310  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e8271c  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 46:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb6450  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d89c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d8c8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f881f8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73cfc  
SgExprListExp\* p\_args : 0x8e8f244  
SgType\* p\_expression\_type : 0x89f8688

AstAttributes:  
APIDep: 0x8f896d0



pointer:0x8e73cfc  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 46:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(MPI\_Comm , int \*)

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SgNode\* p\_parent : 0x8e8271c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d844  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d870  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b452a0  
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:0x8e8f244  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 46:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8271c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d818  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d7ec  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9c1f8, 0x8ea97e8]

pointer:0x8e9c1f8  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 46:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f244  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d94c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d978  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae590  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce56b0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f88f90  
ssa\_varname\_KeyTag: 0x8fae568

pointer:0x8ea97e8  
SgAddressOfOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 46:26  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int \*

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SgNode\* p\_parent : 0x8e8f244  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d9fc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6da28  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f88f10  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_operand\_i : 0x8e9c230  
SgType\* p\_expression\_type : 0  
SgUnaryOp::Sgop\_mode p\_mode : 0

AstAttributes:  
APIDep: 0x8f88e38

pointer:0x8e9c230  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 46:26  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8ea97e8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d9a4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d9d0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae5f8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce56e0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae5d0

pointer:0x8eb647c  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 47:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d4a8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6d920  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f892d0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2611  
SgExpression\* p\_expression : 0x8e82750

AstAttributes:  
APIDep: 0x8f89280  
FILLET: FilletAttribute  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e82750  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 47:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eb647c  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6db30  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6db5c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f89260  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73d38  
SgExprListExp\* p\_args : 0x8e8f278  
SgType\* p\_expression\_type : 0x89f47c8

AstAttributes:  
APIDep: 0x8f89208

pointer:0x8e73d38  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 47:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(char \* \_\_restrict\_\_ , const char \* \_\_restrict\_\_ , ... )

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SgNode\* p\_parent : 0x8e82750  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6daac  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6dad8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b43ed8  
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:0x8e8f278  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 47:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e82750  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6da54  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6db04  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9c268, 0x8d27fb4, 0x8e9c2a0]

pointer:0x8e9c268  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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

SgNode\* p\_parent : 0x8e8f278  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6dc38  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6dc64  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae660  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6dc90  
SgVariableSymbol\* p\_symbol : 0x8ce56c8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae638

pointer:0x8d27fb4  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: const char \*

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

SgNode\* p\_parent : 0x8e8f278  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6de1c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6de48  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6de74  
SgExpression\* p\_operand\_i : 0x8f1d0c4  
SgType\* p\_expression\_type : 0x8bd7df0  
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

pointer:0x8f1d0c4  
SgStringVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 47:19  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char\*

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

SgNode\* p\_parent : 0x8d27fb4  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e000  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e02c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
std::string p\_value : Hello from slave %d\n  
bool p\_wcharString : 0  
bool p\_usesSingleQuotes : 0  
bool p\_usesDoubleQuotes : 0

pointer:0x8e9c2a0  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 47:44  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8f278  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6db88  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6da80  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae6c8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce56e0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae6a0

pointer:0x8eb64a8  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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

SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d768  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6dbb4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f89428  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2612  
SgExpression\* p\_expression : 0x8e82784

AstAttributes:  
APIDep: 0x8f895e0  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e82784  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8eb64a8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6dd98  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6def8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f890d8  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73d74  
SgExprListExp\* p\_args : 0x8e8f2ac  
SgType\* p\_expression\_type : 0x89f7208

AstAttributes:  
APIDep: 0x8f5f448

pointer:0x8e73d74  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(void \*, int , MPI\_Datatype , int , int , MPI\_Comm )

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

SgNode\* p\_parent : 0x8e82784  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ddf0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ddc4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b44af0  
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:0x8e8f2ac  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e82784  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6dd14  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6dce8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8d27ff8, 0x8d2803c, 0x8e9c348, 0x8d38b44, 0x8d38b78, 0x8e9c380]

pointer:0x8d27ff8  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: void \*

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

SgNode\* p\_parent : 0x8e8f2ac  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6dfa8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6dfd4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f89478  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e058  
SgExpression\* p\_operand\_i : 0x8e9c2d8  
SgType\* p\_expression\_type : 0x8bd7e24  
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

AstAttributes:  
APIDep: 0x8f89460

pointer:0x8e9c2d8  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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

SgNode\* p\_parent : 0x8d27ff8  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e18c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e1b8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae730  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e1e4  
SgVariableSymbol\* p\_symbol : 0x8ce56c8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae708

pointer:0x8d2803c  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8f2ac  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e0dc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e0b0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f897e0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e084  
SgExpression\* p\_operand\_i : 0x8f29d48  
SgType\* p\_expression\_type : 0x8bcb1f8  
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

AstAttributes:  
APIDep: 0x8f89230

pointer:0x8f29d48  
SgAddOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:32  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: size\_t

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

SgNode\* p\_parent : 0x8d2803c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e2c0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e2ec  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e44c  
SgExpression\* p\_lhs\_operand\_i : 0x8e827b8  
SgExpression\* p\_rhs\_operand\_i : 0x8d280c4  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0

pointer:0x8e827b8  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: size\_t

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

SgNode\* p\_parent : 0x8f29d48  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e39c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e4a4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73db0  
SgExprListExp\* p\_args : 0x8e8f2e0  
SgType\* p\_expression\_type : 0x89f5e08

pointer:0x8e73db0  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: size\_t(const char \*)

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

SgNode\* p\_parent : 0x8e827b8  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e3c8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e3f4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b44730  
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:0x8e8f2e0  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e827b8  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e420  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e370  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8d28080]



pointer:0x8d28080  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: const char \*

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

SgNode\* p\_parent : 0x8e8f2e0  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e554  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e580  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e5ac  
SgExpression\* p\_operand\_i : 0x8e9c310  
SgType\* p\_expression\_type : 0x8bd7df0  
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

pointer:0x8e9c310  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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

SgNode\* p\_parent : 0x8d28080  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e6e0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e70c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae798  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e738  
SgVariableSymbol\* p\_symbol : 0x8ce56c8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae770

pointer:0x8d280c4  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: unsigned int

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

SgNode\* p\_parent : 0x8f29d48  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e604  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e5d8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e65c  
SgExpression\* p\_operand\_i : 0x8d38b10  
SgType\* p\_expression\_type : 0x8c07ae0  
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

pointer:0x8d38b10  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:34  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8d280c4  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e814  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e840  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 1  
std::string p\_valueString : 1

pointer:0x8e9c348  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:37  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Datatype

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

SgNode\* p\_parent : 0x8e8f2ac  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6df24  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6df50  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae800  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce3f88  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f89370  
ssa\_varname\_KeyTag: 0x8fae7d8

pointer:0x8d38b44  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:47  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8f2ac  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e134  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e108  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f89848  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

AstAttributes:  
APIDep: 0x8f89830

pointer:0x8d38b78  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:50  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8f2ac  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e268  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e23c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f894b8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

AstAttributes:  
APIDep: 0x8f898d0

pointer:0x8e9c380  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 48:53  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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

SgNode\* p\_parent : 0x8e8f2ac  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6df7c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e160  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae868  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5698  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f89570  
ssa\_varname\_KeyTag: 0x8fae840



pointer:0x8eb64d4  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 50:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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

SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d794  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6dea0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f5f378  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2613  
SgExpression\* p\_expression : 0x8e827ec

AstAttributes:

APIDep: 0x8f5f308

FILLET: FilletAttribute

PragmaAttribute: PragmaAttribute undef

pointer:0x8e827ec  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 50:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8eb64d4  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e4d0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e4fc  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f5f320  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73dec  
SgExprListExp\* p\_args : 0x8e8f314  
SgType\* p\_expression\_type : 0x89f47c8

AstAttributes:  
APIDep: 0x8f5f5e0

pointer:0x8e73dec  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 50:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(char \* \_\_restrict\_\_ , const char \* \_\_restrict\_\_ , ... )

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

SgNode\* p\_parent : 0x8e827ec  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e344  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e294  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b43ed8  
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:0x8e8f314  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 50:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e827ec  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e210  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e630  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8e9c3b8, 0x8d2814c, 0x8e9c3f0]

pointer:0x8e9c3b8  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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

SgNode\* p\_parent : 0x8e8f314  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e7e8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e7bc  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae8d0  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6e86c  
SgVariableSymbol\* p\_symbol : 0x8ce56c8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae8a8

pointer:0x8d2814c  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: const char \*

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

SgNode\* p\_parent : 0x8e8f314  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e9f8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ea24  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6ea50  
SgExpression\* p\_operand\_i : 0x8f1d12c  
SgType\* p\_expression\_type : 0x8bd7df0  
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

pointer:0x8f1d12c  
SgStringVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 50:19  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char\*

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

SgNode\* p\_parent : 0x8d2814c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ebdc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ec08  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
std::string p\_value : Goodbye from slave %d\n  
bool p\_wcharString : 0  
bool p\_usesSingleQuotes : 0  
bool p\_usesDoubleQuotes : 0

pointer:0x8e9c3f0  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 50:46  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8f314  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e6b4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e528  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae938  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce56e0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae910



pointer:0x8eb6500  
SgExprStatement  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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

SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6d8f4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e688  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f5f608  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2614  
SgExpression\* p\_expression : 0x8e82820

AstAttributes:  
APIDep: 0x8f5f7e0  
PragmaAttribute: PragmaAttribute undef

pointer:0x8e82820  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8eb6500  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e974  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ead4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f89498  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73e28  
SgExprListExp\* p\_args : 0x8e8f348  
SgType\* p\_expression\_type : 0x89f7208

AstAttributes:  
APIDep: 0x8f5f528

pointer:0x8e73e28  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int(void \*, int , MPI\_Datatype , int , int , MPI\_Comm )

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

SgNode\* p\_parent : 0x8e82820  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e9cc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e9a0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b44af0  
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:0x8e8f348  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:5  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e82820  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6e8f0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e8c4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8d28190, 0x8d281d4, 0x8e9c498, 0x8d38be0, 0x8d38c14, 0x8e9c4d0]

pointer:0x8d28190  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: void \*

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

SgNode\* p\_parent : 0x8e8f348  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6eb84  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ebb0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f5f588  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6ec34  
SgExpression\* p\_operand\_i : 0x8e9c428  
SgType\* p\_expression\_type : 0x8bd7e24  
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

AstAttributes:  
APIDep: 0x8f5f660

pointer:0x8e9c428  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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

SgNode\* p\_parent : 0x8d28190  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ed68  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ed94  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8fae9a0  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6edc0  
SgVariableSymbol\* p\_symbol : 0x8ce56c8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae978

pointer:0x8d281d4  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e8f348  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ecb8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ec8c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f5f4b0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6ec60  
SgExpression\* p\_operand\_i : 0x8f29d80  
SgType\* p\_expression\_type : 0x8bcb1f8  
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

AstAttributes:  
APIDep: 0x8f5f340

pointer:0x8f29d80  
SgAddOp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:32  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: size\_t

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

SgNode\* p\_parent : 0x8d281d4  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ee9c  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6eec8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6f028  
SgExpression\* p\_lhs\_operand\_i : 0x8e82854  
SgExpression\* p\_rhs\_operand\_i : 0x8d2825c  
SgType\* p\_expression\_type : 0  
SgExpression\* p\_originalExpressionTree : 0



pointer:0x8e82854  
SgFunctionCallExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: size\_t

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

SgNode\* p\_parent : 0x8f29d80  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ef78  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6f080  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_function : 0x8e73e64  
SgExprListExp\* p\_args : 0x8e8f37c  
SgType\* p\_expression\_type : 0x89f5e08

pointer:0x8e73e64  
SgFunctionRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: size\_t(const char \*)

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

SgNode\* p\_parent : 0x8e82854  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6efa4  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6efd0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgFunctionSymbol\* p\_symbol\_i : 0x8b44730  
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:0x8e8f37c  
SgExprListExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:20  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8e82854  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6effc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ef4c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpressionPtrList p\_expressions : [0x8d28218]

pointer:0x8d28218  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: const char \*

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

SgNode\* p\_parent : 0x8e8f37c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6f130  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6f15c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6f188  
SgExpression\* p\_operand\_i : 0x8e9c460  
SgType\* p\_expression\_type : 0x8bd7df0  
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

pointer:0x8e9c460  
SgVarRefExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: char [256UL]

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

SgNode\* p\_parent : 0x8d28218  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6f2bc  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6f2e8  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8faea08  
bool p\_need\_paren : 1  
bool p\_lvalue : 1  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6f314  
SgVariableSymbol\* p\_symbol : 0x8ce56c8  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
ssa\_varname\_KeyTag: 0x8fae9e0

pointer:0x8d2825c  
SgCastExp  
compilerGenerated 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: unsigned int

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

SgNode\* p\_parent : 0x8f29d80  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6f1e0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6f1b4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0x8e6f238  
SgExpression\* p\_operand\_i : 0x8d38bac  
SgType\* p\_expression\_type : 0x8c07ae0  
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

pointer:0x8d38bac  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:34  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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

SgNode\* p\_parent : 0x8d2825c  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6f3f0  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6f41c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 1  
std::string p\_valueString : 1

pointer:0x8e9c498  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:37  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Datatype

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SgNode\* p\_parent : 0x8e8f348  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6eb00  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6eb2c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8faea70  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce3f88  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f5f3d0  
ssa\_varname\_KeyTag: 0x8faea48



pointer:0x8d38be0  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:47  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8f348  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ed10  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ece4  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f5f4e8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

AstAttributes:  
APIDep: 0x8f5f8b0

pointer:0x8d38c14  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:50  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8e8f348  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ee44  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ee18  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8f5f700  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

AstAttributes:  
APIDep: 0x8f5f6e8

pointer:0x8e9c4d0  
SgVarRefExp  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 51:53  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: MPI\_Comm

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SgNode\* p\_parent : 0x8e8f348  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6eb58  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6ed3c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8faead8  
bool p\_need\_paren : 1  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgVariableSymbol\* p\_symbol : 0x8ce5698  
SgExpression\* p\_originalExpressionTree : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

AstAttributes:  
APIDep: 0x8f5f770  
ssa\_varname\_KeyTag: 0x8faeab0

pointer:0x8eacea0  
SgReturnStmt  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 53:5  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0xb736c228  
bool p\_isModified : 1  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6eaa8  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6e790  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0x8ffd6c8  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2615  
SgExpression\* p\_expression : 0x8d38c48

AstAttributes:  
PragmaAttribute: PragmaAttribute undef

pointer:0x8d38c48  
SgIntVal  
/home/dagit/mpiskel/extractMPISkeleton/tests/master-slave/io.c 53:12  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Expression type: int

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SgNode\* p\_parent : 0x8eacea0  
bool p\_isModified : 0  
\$CLASSNAME\* p\_freepointer : 0xffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x8e6ee70  
Sg\_File\_Info\* p\_endOfConstruct : 0x8e6f20c  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_need\_paren : 0  
bool p\_lvalue : 0  
bool p\_global\_qualified\_name : 0  
Sg\_File\_Info\* p\_operatorPosition : 0  
SgExpression\* p\_originalExpressionTree : 0  
int p\_value : 0  
std::string p\_valueString : 0

