

## + GetAllFuncDefinitions() + GetFunctionByDynamicType() + AddStateVarToDynamicType() + AddVisibleFunctionToContract() + GetVisibleFunctionsByContract() + GetContractByStateVarDecl() + HasStateVarName() + GetStateVarByDynamicType() + AddVisibleStateVarToContract() + GetVisibleStateVarsByContract() + MakeFreshTypedIdent() + AddModiferToPreProc() + AddModiferToPostProc() + AddModiferToPreImpl() + AddModiferToPostImpl()

SolToBoogie.TranslatorContext

+ MAX\_GAS\_LIMIT + MIN\_GAS\_LIMIT + TX\_GAS\_COST

+ Program + IdToNodeMap + SourceDirectory

+ CREATE GAS COST + CALL GĀS STĪPEND

+ ContractDefinitions + ContractToSubTypesMap + ContractToStateVarsMap + StateVarToContractMap + ContractToMappingsMap + ContractToArraysMap + ContractToConstructorMap + ContractToFallbackMap + ContractToEventsMap + EventToContractMap + ContractToFunctionsMap + ContractToFuncSigsMap + FunctionToContractMap + FuncSigResolutionMap

+ ASTNodeToSourcePathMap

+ ASTNodeToSourceLineNumberMap

+ ContractToVisibleFunctionsMap + StateVarNameResolutionMap + ContractToVisibleStateVarsMap + ModifierToBoogiePreProc + ModifierToBoogiePostProc + ModifierToBoogiePreImpl + ModifierToBoogiePostImpl + ModifierToPreludeLocalVars

+ EntryPointContract + TranslateFlags

 freshldentifierCount - IgnoreMethods genInlineAttrInBpl

+ TranslatorContext() + HasASTNodeId()

+ GetASTNodeById()

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+ HasFuncSignature()

+ AddContract() + HasContractName() + GetContractByName() + AddSubTypeToContract() + GetSubTypesOfContract() + AddStateVarToContract() + AddMappingtoContract() + AddArrayToContract() + HasStateVarInContract() + GetStateVarsByContract() + AddConstructorToContract() + AddFallbackToContract() + IsConstructorDefined() + GetConstructorByContract() + AddEventToContract() + HasEventNameInContract() + AddFunctionToContract() + HasFuncSigInContract() + GetFunctionBySignature() + GetContractByFunction() + HasFuncSigInDynamicType() + AddFunctionToDynamicType()

+ AddSourceInfoForASTNode()

+ GetLineNumberOfASTNode() + GetFuncDefintionsInContract()

+ GetAbsoluteSourcePathOfASTNode()

OHSHICOHLI act()

+ UsingMap

usingMap

SolToBoogie.GhostVarAndAxiom Generator

- GenerateFunctions() GenerateZeroRefIntArrayFunction()
- GenerateZeroIntIntArrayFunction()

+ Generate()

+ AddPreludeLocalsToModifier() + IsMethodInIgnoredSet()

- GenerateZeroRefBoolArray
- Function() GenerateZeroIntBoolArray

-context

- Function()
- GenerateZeroRefRefArrayFunction() GenerateZeroIntRefArrayFunction()
- GenerateKeccakFunction()
- GenerateAbiEncodedFunction OneArg()
- GenerateAbiEncodedFunction TwoArgs()
- GenerateAbiEncodedFunction OneArgRef() GenerateAbiEncodedFunction
- TwoArgsOneRef() - GenerateConstToRefFunction()
- GenerateRefToInt()
- GenerateVeriSolSumFunction()
- GenerateModFunction()
- GenerateTypes()
- GenerateConstants() GenerateGlobalVariables()
- GenerateGlobalImplementations()
- GenerateStructConstructors()
- GenerateStructConstructors() GenerateBoogieRecord()
- GenerateGlobalProcedureFresh() - GenerateGlobalProcedureAlloc
- Many()
- GenerateAxioms()
- GenerateConstToRefAxiom() GenerateKeccakAxiom()
- GenerateAbiEncodePackedAxiom

OneArgRef()

- OneArg() GenerateAbiEncodePackedAxiom
- TwoArgs() GenerateAbiEncodePackedAxiom
- GenerateVeriSolSumAxioms() GenerateAbiEncodePackedAxiom
- TwoArgsOneRef()
- GenerateMemoryVariables()
- GenerateMemoryVariablesFor Mapping()
- GenerateMemoryVariablesFor Array()
- GenerateSingleMemoryVariable()