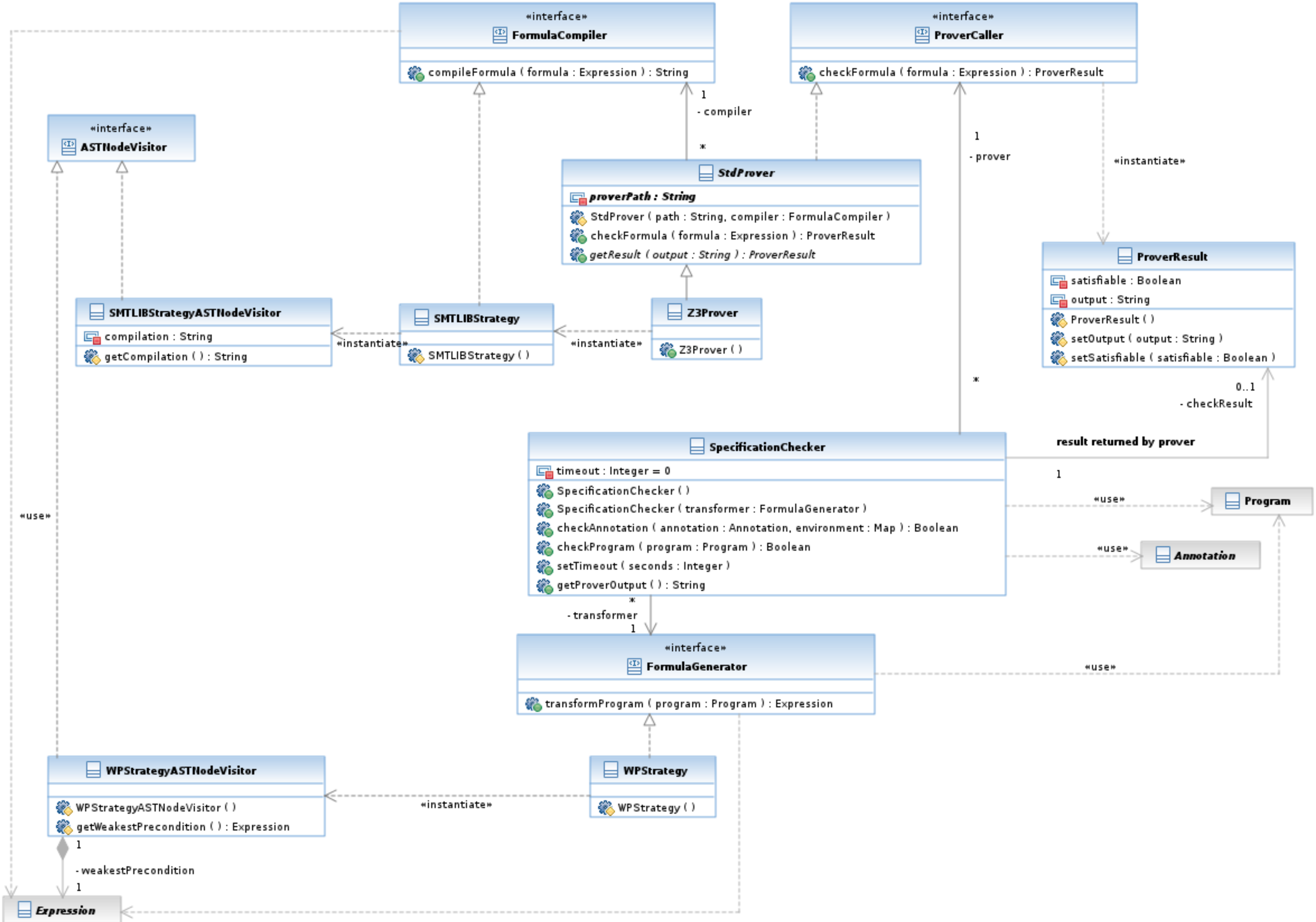
«interface»
FormulaCompiler
compileFormula (formula : Expression) : String
«interface»
ProverCaller
checkFormula (formula : Expression) : ProverResult
«interface»
ASTNodeVisitor
1
- compiler
*
StdProver
proverPath : String
StdProver (path : String, compiler : FormulaCompiler)
checkFormula (formula : Expression) : ProverResult
getResult (output : String) : ProverResult
1
- prover
«instantiate»
ProverResult
satisfiable : Boolean
output : String
ProverResult ( )
setOutput (output : String)
setSatisfiable (satisfiable : Boolean)
SMTLIBStrategyASTNodeVisitor
compilation : String
getCompilation ( ) : String
«instantiate»
SMTLIBStrategy
SMTLIBStrategy ( )
«instantiate»
Z3Prover
Z3Prover ( )
*
0..1
- checkResult
result returned by prover
SpecificationChecker
timeout : Integer = 0
SpecificationChecker ( )
SpecificationChecker (transformer : FormulaGenerator)
checkAnnotation (annotation : Annotation, environment : Map) : Boolean
checkProgram (program : Program) : Boolean
setTimeout (seconds : Integer)
getProverOutput ( ) : String
1
«use»
Program
«use»
Annotation
«use»
*
- transformer
1
«interface»
FormulaGenerator
transformProgram (program : Program) : Expression
«use»
WPStrategyASTNodeVisitor
WPStrategyASTNodeVisitor ( )
getWeakestPrecondition ( ) : Expression
«instantiate»
WPStrategy
WPStrategy ( )
1
- weakestPrecondition
1
Expression