JavaScript is disabled on your browser.

- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

**jminusminus** 

### Class JPreIncrementOp

· java.lang.Object Project Exam Help

jminusminus.JStatement\*

jminusminus.JExpression

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class JPreIncrementOp
extends JUnaryExpression

The AST node for a ++expr expression.

- Field Summary
- Fields inherited from class jminusminus.JUnaryExpression arg
- Fields inherited from class jminusminus.JExpression isStatementExpression, type
- Fields inherited from class jminusminus.JAST compilationUnit, line
- Constructor Summary

Constructors

Constructor and Description

Construct an AST node for a ++expr given its line number, and the operand.

### • Method Summary

Methods

Modifier and Type

**Method and Description** 

**JExpression** 

analyze(Context context)

Analyze the operand as a lhs (since there is a side effect),

check types and determine the type of the result.

codegen(CLEmitter output)

void

In generating code for a pre-increment operation, we treat simple variable (JVariable) operands specially since the JVM has an increment instruction.

 Methods inherited from class jminusminus.JUnaryExpression writeToStdOut

• Methods inherited from class jminusminus.JExpression

codegen, isStatementExpression, type

# Assignmenti-Broject ExamisHelp

line, partialCodegen

· Artitosinheriotwoodervoorabject

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

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- Constructor Detail
  - JPreIncrementOp

Construct an AST node for a ++expr given its line number, and the operand.

#### Parameters:

line - line in which the expression occurs in the source file. arg - the operand.

- Method Detail
  - analyze

publicJExpressionanalyze(Contextcontext)

Analyze the operand as a lhs (since there is a side effect), check types and determine the type of the result.

#### Specified by:

analyze in class JExpression

#### **Parameters:**

context - context in which names are resolved.

#### Returns:

the analyzed (and possibly rewritten) AST subtree.

codegen

publicvoidcodegen(CLEmitteroutput)

In generating code for a pre-increment operation, we treat simple variable (JVariable) operands specially since the JVM has an increment instruction. Otherwise, we rely on the JLhs code generation support for generating the proper code. Notice that we distinguish between expressions that are statement expressions and those that are not; we insure the proper value (after the increment) is left atop the stack in the latter case.

### Specified by:

codegen in class JAST

#### **Parameters:**

output - the code emitter (basically an abstraction for producing the .class file).

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