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- [Prev Class](#)
- [Next Class](#)

- [Frames](#)
- [No Frames](#)

- [All Classes](#)

- [Summary:](#)
- [Nested |](#)
- [Field |](#)
- [Constr |](#)
- [Method](#)

- [Detail:](#)
- [Field |](#)
- [Constr |](#)
- [Method](#)

jminusminus

Class JAssignOp

- [java.lang.Object](#)
- [jminusminus.JAST](#)
- [jminusminus.JStatement](#)
- [jminusminus.JExpression](#)
- [jminusminus.JBinaryExpression](#)
- [jminusminus.JAssignment](#)
- [jminusminus.JAssignOp](#)

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```
class JAssignOp  
extends JAssignment
```

The AST node for an assignment (=) expression. The = operator has two operands: a lhs and a rhs.

- **Field Summary**
- **Fields inherited from class [jminusminus.JBinaryExpression](#)**
[lhs](#), [operator](#), [rhs](#)
- **Fields inherited from class [jminusminus.JExpression](#)**
[isStatementExpression](#), [type](#)
- **Fields inherited from class [jminusminus.JAST](#)**
[compilationUnit](#), [line](#)
- **Constructor Summary**

Constructors
Constructor and Description

JAssignOp(int line, JExpression lhs, JExpression rhs)

Construct the AST node for an assignment (=) expression given the lhs and rhs operands.

- **Method Summary**

Methods

**Modifier and
Type**

Method and Description

JExpression	analyze (Context context) Analyze the lhs and rhs, checking that types match, and set the result type.
void	codegen (CLEmitter output) Code generation for an assignment involves, generating code for loading any necessary Lvalue onto the stack, for loading the Rvalue, for (unless a statement) copying the Rvalue to its proper place on the stack, and for doing the store.

- **Methods inherited from class jminusminus.JBinaryExpression**

writeToSource

- **Methods inherited from class jminusminus.JExpression**

codegen, isStatementExpression, type

- **Methods inherited from class jminusminus.JAST**

line, partialCodegen

- **Methods inherited from class java.lang.Object**

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

- **Constructor Detail**

- **JAssignOp**

```
public JAssignOp(int line,  
                 JExpression lhs,  
                 JExpression rhs)
```

Construct the AST node for an assignment (=) expression given the lhs and rhs operands.

Parameters:

line - line in which the assignment expression occurs in the source file.

lhs - lhs operand.

rhs - rhs operand.

- **Method Detail**

- **analyze**

```
public JExpression analyze(Context context)
```

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Analyze the lhs and rhs, checking that types match, and set the result type.

Specified by:

`analyze` in class `JExpression`

Parameters:

`context` - context in which names are resolved.

Returns:

the analyzed (and possibly rewritten) AST subtree.

- `codegen`

`public void codegen(CLEmitter output)`

Code generation for an assignment involves, generating code for loading any necessary Lvalue onto the stack, for loading the Rvalue, for (unless a statement) copying the Rvalue to its proper place on the stack, and for doing the store.

Specified by:

`codegen` in class `JAST`

Parameters:

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

- [Prev Class](#)
- [Next Class](#)

- [Frames](#)
- [No Frames](#)

- [All Classes](#)

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- [Field |](#)
- [Constr |](#)
- [Method](#)

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- [Field |](#)
- [Constr |](#)
- [Method](#)

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