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jminusminus

Class JLogicalAndOp

- [java.lang.Object](#)
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```
class JLogicalAndOp
extends JBooleanBinaryExpression
```

The AST node for a logical AND (&&) expression. Implements short-circuiting branching.

- **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

JLogicalAndOp(int line, JExpression lhs, JExpression rhs)
Construct an AST node for a logical AND expression given its line number, and lhs and rhs operands.

- **Method Summary**

Methods

**Modifier and
Type**

Method and Description

JExpression	analyze (Context context) Analyzing a logical AND expression involves analyzing its operands and insuring they are boolean; the result type is of course boolean.
void	codegen (CLEmitter output, String targetLabel, boolean onTrue) The semantics of j-- require that we implement short-circuiting branching in implementing the logical AND.

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

codegen

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

writeToStdOut

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

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**

- **JLogicalAndOp**

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

Construct an AST node for a logical AND expression given its line number, and lhs and rhs operands.

Parameters:

line - line in which the logical AND expression occurs in the source file.

lhs - lhs operand.

rhs - rhs operand.

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- **Method Detail**

- **analyze**

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

Analyzing a logical AND expression involves analyzing its operands and insuring they are boolean; the result type is of course boolean.

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,
                   String targetLabel,
                   boolean onTrue)
```

The semantics of j-- require that we implement short-circuiting branching in implementing the logical AND.

Overrides:

`codegen` in class `JExpression`

Parameters:

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

`targetLabel` - target for generated branch instruction.

`onTrue` - should we branch on true?

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