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

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

- [All Classes](#)

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

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

jminusminus

Class JCastOp

- [java.lang.Object](#)
- [jminusminus.AST](#)
- [jminusminus.JStatement](#)
- [jminusminus.JExpression](#)
- [jminusminus.JCastOp](#)

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```
class JCastOp
extends JExpression
```

The AST for an cast expression, which has both a cast (a type) and the expression to be cast.

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

Constructors
Constructor and Description

```
JCastOp(int line, Type cast, JExpression expr)
```

Construct an AST node for a cast operation from its line number, cast, and expression.

- **Method Summary**

Methods

**Modifier and
Type**

Method and Description

<code>JExpression</code>	<code>analyze</code> (<code>Context</code> context) Analyzing a cast expression means, resolving the type (to which we are casting), checking the legality of the cast, and computing a (possibly null) conversion for use in code generation.
<code>void</code>	<code>codegen</code> (<code>CLEmitter</code> output) Generating code for a cast expression involves generating code for the original expr, and then for any necessary conversion.
<code>void</code>	<code>writeToStdOut</code> (<code>PrettyPrinter</code> p) Write the information pertaining to this AST to STDOUT.

- **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`

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- **Constructor Detail**

- **`JCastOp`**

```
public JCastOp(int line,
               Typecast,
               JExpression expr)
```

Construct an AST node for a cast operation from its line number, cast, and expression.

Parameters:

`line` - the line in which the operation occurs in the source file.
`cast` - the type we're casting our expression as.
`expr` - the expression we're casting.

- **Method Detail**

- **`analyze`**

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

Analyzing a cast expression means, resolving the type (to which we are casting), checking the legality of the cast, and computing a (possibly null) conversion for use in code generation.

Specified by:

`analyze` in class `JExpression`

Parameters:

`context` - context in which names are resolved.

Returns:

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the analyzed (and possibly rewritten) AST subtree.

- **codegen**

```
public void codegen(CLEmitter output)
```

Generating code for a cast expression involves generating code for the original expr, and then for any necessary conversion.

Specified by:

[codegen](#) in class [JAST](#)

Parameters:

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

- **writeToStdOut**

```
public void writeToStdOut(PrettyPrinter p)
```

Description copied from class: [JAST](#)

Write the information pertaining to this AST to STDOUT.

Specified by:

[writeToStdOut](#) in class [JAST](#)

Parameters:

p - for pretty printing with indentation.

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

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

- [All Classes](#)

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

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

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