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jminusminus

Class JFormalParameter

- java.lang.Object
  - jminusminus.JAST
    - jminusminus.JFormalParameter

```
class JFormalParameter
extends JAST
```

The AST node for a formal parameter declaration. All analysis and code generation is done in a parent AST.

- **Field Summary**

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

  compilationUnit, line

- **Constructor Summary**

Constructors

Constructor and Description

JFormalParameter(int line, String name, Type type)
Construct an AST node for a formal parameter declaration given its line number, name, and type.

- **Method Summary**

Methods

Modifier and Type	Method and Description

JAST	**analyze**(Context context) No analysis done here.	
void	**codegen**(CLEmitter output) No code generated here.	
String	**name**() Return the parameter's name.	
Type	**setType**(Type newType) Set the type to the specified type.	
Type	**type**() Return the parameter's type.	
void	**writeToStdOut**(PrettyPrinter p) Write the information pertaining to this AST to STDOUT.	

- **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**

  - **JFormalParameter**

  publicJFormalParameter(intline,
                 Stringname,
                 Typetype)

  Construct an AST node for a formal parameter declaration given its line number, name, and type.

  Parameters:
  > line - line in which the parameter occurs in the source file.
  > name - parameter name.
  > type - parameter type.

- **Method Detail**

  - **name**

  publicStringname()

  Return the parameter's name.
  Returns:
  > the parameter's name.

  - **type**

  publicTypetype()

  Return the parameter's type.
  Returns:
  > the parameter's type.

- **setType**

`public Type setType(Type newType)`

Set the type to the specified type.

Parameters:
  newType - the new type.
Returns:
  return the new type.

- **analyze**

`public JAST analyze(Context context)`

No analysis done here.

Specified by:
  analyze in class JAST
Parameters:
  context - context in which names are resolved.
Returns:
  the analyzed (and possibly rewritten) AST subtree.

- **codegen**

`public void codegen(CLEmitter output)`

No code generated here.

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.

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