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- Detail:
- Field |
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jminusminus

Class LocalContext

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- java.lang.Object
  - jminusminus.Context
    - jminusminus.LocalContext

- Direct Known Subclasses:
  MethodContext

```
class LocalContext
extends Context
```

A local context is a context (scope) in which local variables (including formal parameters) can be declared. Local variables are allocated at fixed offsets from the base of the current method's stack frame; this is done during anaysis. The definitions for local variables record these offsets. The offsets are used in code generation.

- **Field Summary**

Fields

Modifier and Type	Field and Description
protected int	**offset** Next offset for a local variable.

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

  classContext, compilationUnitContext, entries, surroundingContext

- **Constructor Summary**

Constructors

Constructor and Description

`LocalContext`(`Context` surrounding)
Construct a local context.

- **Method Summary**

Methods

Modifier and Type	Method and Description
int	`nextOffset`() Allocate a new offset (eg for a parameter or local variable).
int	`offset`() The "next" offset.
void	`writeToStdOut`(`PrettyPrinter` p) Write the contents of this context to STDOUT.

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

`addEntry`, `addType`, `classContext`, `compilationUnitContext`, `definingType`, `lookup`, `lookupType`, `methodContext`, `names`, `surroundingContext`

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

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

- **Field Detail**

  - **offset**

`protectedint offset`

Next offset for a local variable.

- **Constructor Detail**

  - **LocalContext**

`publicLocalContext(Contextsurrounding)`

Construct a local context. A local context is constructed for each block.
Parameters:
    `surrounding` - the surrounding context.

- **Method Detail**

  - **offset**

`publicintoffset()`

The "next" offset. A simple getter. Not to be used for allocating new offsets

(nextOffset() is used for that).

Returns:
    the next available offset.

- **nextOffset**

```
publicintnextOffset()
```

Allocate a new offset (eg for a parameter or local variable).

Returns:
    the next allocated offset.

- **writeToStdOut**

```
publicvoidwriteToStdOut(PrettyPrinterp)
```

Description copied from class: `Context`

Write the contents of this context to STDOUT.

Overrides:
    `writeToStdOut` in class `Context`

Parameters:
    p - for pretty printing with indentation.