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jminusminus

Class LocalVariableDefn

- java.lang.Object
  - jminusminus.LocalVariableDefn

- All Implemented Interfaces:
    IDefn

```
class LocalVariableDefn
extends Object
implements IDefn
```

The definition for a local variable (including formal parameters). All local variables are allocated on the stack at fixed offsets from the base of the stack frame, and all have types. Some local variables have initializations.

- **Constructor Summary**

Constructors

Constructor and Description
LocalVariableDefn(Type type, int offset) Construct a local variable definition for a local variable.

- **Method Summary**

Methods

Modifier and Type	Method and Description
void	**initialize**() Initialize this local variable.

boolean	**isInitialized**() Has this local variable been initialized?
int	**offset**() The offset of this variable on the stack frame.
Type	**type**() The type for this variable.

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

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

- **Constructor Detail**

  - **LocalVariableDefn**

  ```
  publicLocalVariableDefn(Typetype,
                intoffset)
  ```

  Construct a local variable definition for a local variable.
  Parameters:
  type - the variable's type.
  offset - the variable's offset from the base of the current stack frame
  (allocated for each method invocation.)

- **Method Detail**

  - **type**

  ```
  publicTypetype()
  ```

  The type for this variable.
  Specified by:
  type in interface IDefn
  Returns:
  the type.

  - **offset**

  ```
  publicintoffset()
  ```

  The offset of this variable on the stack frame.
  Returns:
  the offset.

  - **initialize**

  ```
  publicvoidinitialize()
  ```

  Initialize this local variable.

  - **isInitialized**

  ```
  publicbooleanisInitialized()
  ```

  Has this local variable been initialized?
  Returns:
  true or false.

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