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jminusminus

Class CLArithmeticInstruction

- [java.lang.Object](#)
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```
class CLArithmeticInstruction  
extends CLInstruction
```

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Representation for ARITHMETIC1 and ARITHMETIC2 instructions.

- **Field Summary**

- **Fields inherited from class [jminusminus.CLInstruction](#)**

`instructionInfo`, `localVariableIndex`, `mnemonic`, `opcode`,
`operandCount`, `pc`, `stackUnits`

- **Constructor Summary**

Constructors

Constructor and Description

```
CLArithmeticInstruction(int opcode, int pc)
```

Construct a CLArithmeticInstruction object for ARITHMETIC1 instructions.

```
CLArithmeticInstruction(int opcode, int pc,  
int localVariableIndex, int constVal, boolean isWidened)
```

Construct a CLArithmeticInstruction object for IINC instruction.

- **Method Summary**

Methods

Modifier and Type

Method and Description

```
ArrayList<Integer> toBytes()  
Return the bytecode for this  
instruction.
```

- **Methods inherited from class `jminusminus.CLInstruction`**

`byteAt`, `isValid`, `localVariableIndex`, `mnemonic`, `opcode`, `operandCount`, `pc`, `stackUnits`

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

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

- **Constructor Detail**

- **`CLArithmeticInstruction`**

```
public CLArithmeticInstruction(int opcode,  
                               int pc)
```

Construct a `CLArithmeticInstruction` object for ARITHMETIC1 instructions.

Parameters:

`opcode` - the opcode for this instruction.
`pc` - index of this instruction within the code array of a method.

- **`CLArithmeticInstruction`**

```
public CLArithmeticInstruction(int opcode,  
                               int pc,  
                               int localVariableIndex,  
                               int constVal,  
                               boolean isWidened)
```

Construct a `CLArithmeticInstruction` object for IINC instruction.

Parameters:

`opcode` - the opcode for this instruction.
`pc` - index of this instruction within the code array of a method.
`localVariableIndex` - index of the local variable to increment.
`constVal` - increment value.
`isWidened` - whether this instruction is preceded by the WIDE (widening) instruction.

- **Method Detail**

- **`toBytes`**

```
public ArrayList<Integer> toBytes()
```

Description copied from class: `CLInstruction`

Return the bytecode for this instruction.

Specified by:

`toBytes` in class `CLInstruction`

Returns:

bytecode.

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