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

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

- [All Classes](#)

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

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

jminusminus

Class NLIRArithmetic

- [java.lang.Object](#)
 - [jminusminus.NLIRInstruction](#)
 - [jminusminus.NLIRArithmetic](#)

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```
class NLIRArithmetic  
extends NLIRInstruction
```

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LIR instruction corresponding to the JVM arithmetic instructions.

- [Field Summary](#)
- [Fields inherited from class jminusminus.NLIRInstruction](#)
`block, id, lirMnemonic, reads, write`
- [Constructor Summary](#)

Constructors
Constructor and Description

```
NLIRArithmetic(NBasicBlock block, int id, int opcode,  
NLIRInstruction lhs, NLIRInstruction rhs)  
Construct an NLIRArithmetic instruction.
```

- [Method Summary](#)

Methods

**Modifier and
Type**

Method and Description

void	allocatePhysicalRegisters() Replace references to virtual registers in this LIR instruction with references to physical registers.
void	toSpim(PrintWriter out) Translate this LIR instruction into SPIM and write it out to the specified output stream.
String	toString() Return a string representation of this instruction.

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

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

- **Constructor Detail**

- **NLIRArithmetic**

```
public NLIRArithmetic(NBasicBlock block,
                     int id,
                     int opcode,
                     NLIRInstruction lhs,
                     NLIRInstruction rhs)
```

Construct an NLIRArithmetic instruction.

Parameters:

block - enclosing block.

id - Identifier of the instruction.

opcode - opcode for the arithmetic operator.

lhs - LIR for lhs.

rhs - LIR for rhs.

- **Method Detail**

- **allocatePhysicalRegisters**

```
public void allocatePhysicalRegisters()
```

Description copied from class: NLIRInstruction

Replace references to virtual registers in this LIR instruction with references to physical registers.

Overrides:

allocatePhysicalRegisters in class NLIRInstruction

- **toSpim**

```
public void toSpim(PrintWriter out)
```

Description copied from class: NLIRInstruction

Translate this LIR instruction into SPIM and write it out to the specified output stream.

Overrides:

toSpim in class NLIRInstruction

Parameters:

out - output stream for SPIM code.

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- **toString**

```
publicStringtoString()
```

Description copied from class: `NLIRInstruction`

Return a string representation of this instruction.

Overrides:

`toString` in class `NLIRInstruction`

Returns:

string representation of this instruction.

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- Detail:
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