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jminusminus

Class NHIRArithmetic

- java.lang.Object
  - jminusminus.NHIRInstruction
    - jminusminus.NHIRArithmetic

```
class NHIRArithmetic
extends NHIRInstruction
```

HIR instruction corresponding to the JVM arithmetic instructions.

- **Field Summary**

Fields

Modifier and Type	Field and Description
int	**lhs** Lhs HIR id.
int	**opcode** Opcode for the arithmetic operator.
int	**rhs** Rhs HIR id.

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

  block, hirMnemonic, id, lir, lType, sType

- **Constructor Summary**

Constructors

Constructor and Description
NHIRArithmetic(`NBasicBlock` block, int id, int opcode, int lhs, int rhs) Construct an NHIRArithmetic instruction.

- **Method Summary**

Methods

Modifier and Type	Method and Description
NLIRInstruction	**toLir**() Convert and return a low-level representation (LIR) of this HIR instruction.
String	**toString**() Return a string representation of this instruction.

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

  equals, id

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

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

- **Field Detail**

  - **opcode**

  publicint opcode

  Opcode for the arithmetic operator.

  - **lhs**

  publicint lhs

  Lhs HIR id.

  - **rhs**

  publicint rhs

  Rhs HIR id.

- **Constructor Detail**

  - **NHIRArithmetic**

  publicNHIRArithmetic(`NBasicBlock`block,
                intid,
                intopcode,
                intlhs,
                intrhs)

  Construct an NHIRArithmetic instruction.
  Parameters:
       `block` - enclosing block.
       `id` - identifier of the instruction.

opcode - opcode for the arithmetic operator.
lhs - lhs HIR id.
rhs - rhs HIR id.

- **Method Detail**

  - **toLir**

publicNLIRInstructiontoLir()

Description copied from class: `NHIRInstruction`

Convert and return a low-level representation (LIR) of this HIR instruction. Also adds the returned LIR instruction to the list of LIR instructions for the block containing this instruction, along with any other intermediate LIR instructions needed.

Overrides:
    toLir in class NHIRInstruction
Returns:
    LIR instruction corresponding to this HIR instruction.

  - **toString**

publicStringtoString()

Description copied from class: `NHIRInstruction`

Return a string representation of this instruction.

Overrides:
    toString in class NHIRInstruction
Returns:
    string representation of this instruction.