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jminusminus

Class NHIRConditionalJump

- [java.lang.Object](#)
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```
class NHIRConditionalJump  
extends NHIRInstruction
```

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HIR instruction representing an conditional jump instructions in JVM.

• Field Summary

Fields	
Modifier and Type	Field and Description
int	lhs Lhs HIR id.
NBasicBlock	onFalseDestination Block to jump to on false.
NBasicBlock	onTrueDestination Block to jump to on true.
int	opcode Test expression opcode.
int	rhs Rhs HIR id.

- **Fields inherited from class `jminusminus.NHIRInstruction`**
`block`, `hirMnemonic`, `id`, `lir`, `lType`, `sType`
- **Constructor Summary**

Constructors
Constructor and Description

`NHIRConditionalJump`(`NBasicBlock` block, int id, int lhs, int rhs, int opcode, `NBasicBlock` onTrueDestination, `NBasicBlock` onFalseDestination)
Construct an `NHIRConditionalJump` instruction.

- **Method Summary**

Methods

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

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- **Field Detail**

- **`lhs`**

`public int lhs`

Lhs HIR id.

- **`rhs`**

`public int rhs`

Rhs HIR id.

- **`opcode`**

`public int opcode`

Test expression opcode.

- **`onTrueDestination`**

`public NBasicBlock onTrueDestination`

Block to jump to on true.

- **onFalseDestination**

`public NBasicBlock onFalseDestination`

Block to jump to on false.

- **Constructor Detail**

- **NHIRConditionalJump**

```
public NHIRConditionalJump(NBasicBlock block,
                           int id,
                           int lhs,
                           int rhs,
                           int opcode,
                           NBasicBlock onTrueDestination,
                           NBasicBlock onFalseDestination)
```

Construct an NHIRConditionalJump instruction.

Parameters:

block - enclosing block.

id - identifier of the instruction.

lhs - Lhs HIR id.

rhs - Rhs HIR id.

opcode - opcode in the test.

onTrueDestination - block to jump to on true.

onFalseDestination - block to jump to on false.

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- **Method Detail**

- **toLir**

```
public NLIRInstruction toLir()
```

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**

```
public String toString()
```

Description copied from class: **NHIRInstruction**

Return a string representation of this instruction.

Overrides:

`toString` in class **NHIRInstruction**

Returns:

string representation of this instruction.

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