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jminusminus

Class NLIRConditionalJump

- java.lang.Object
  - jminusminus.NLIRInstruction
    - jminusminus.NLIRConditionalJump

-

```
 class NLIRConditionalJump
extends NLIRInstruction
```

LIR instruction representing an conditional jump instructions in JVM.

- **Field Summary**

Fields

Modifier and Type	Field and Description
`NBasicBlock`	**`onFalseDestination`** Block to jump to on false.
`NBasicBlock`	**`onTrueDestination`** Block to jump to on true.
`int`	**`opcode`** Test expression opcode.

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

`block, id, lirMnemonic, reads, write`

- ### Constructor Summary

Constructors

Constructor and Description
NLIRConditionalJump(NBasicBlock block, int id, NLIRInstruction lhs, NLIRInstruction rhs, int opcode, NBasicBlock onTrueDestination, NBasicBlock onFalseDestination) Construct an NLIRConditionalJump 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`

- ### Field Detail

  - #### opcode

```
publicint opcode
```

Test expression opcode.

  - #### onTrueDestination

```
publicNBasicBlock onTrueDestination
```

Block to jump to on true.

  - #### onFalseDestination

```
publicNBasicBlock onFalseDestination
```

Block to jump to on false.

- ### Constructor Detail

  - #### NLIRConditionalJump

```
publicNLIRConditionalJump(NBasicBlockblock,
                          intid,
                          NLIRInstructionlhs,
                          NLIRInstructionrhs,
intopcode,
NBasicBlockonTrueDestination,
NBasicBlockonFalseDestination)
```

Construct an NLIRConditionalJump instruction.

Parameters:

`block` - enclosing block.
`id` - identifier of the instruction.
`lhs` - lhs LIR.
`rhs` - rhs LIR.
`opcode` - opcode in the test.
`onTrueDestination` - block to jump to on true.
`onFalseDestination` - block to jump to on false.

- ## Method Detail

  - ### allocatePhysicalRegisters

```
publicvoidallocatePhysicalRegisters()
```

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

```
publicvoidtoSpim(PrintWriterout)
```

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.

  - ### 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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