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**jminusminus** 

### **Class NLIRInstruction**

- · java.lang.Object
   Ans. Schenment Droject Exam Help
- · Direct Known Subclasses:

NLIRALopde NLIRArith/petic NLIRAState NLIRConditional Jump, NLIRGetField, NLIRGoto, NLIRINConditant, NLIRINVOKE, NLIRLoad, NLIRLoadLocal, NLIRMove, NLIRNewArray, NLIRPhiFunction, NLIRPutField, NLIRReturn, NLIRStore, NLIRStringConstant

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abstract class **NLIRInstruction** extends Object

Low-level intermediate representation (LIR) of a JVM instruction.

Field Summary

Modifier and Type	Field and Description
NBasicBlock	block The block containing this instruction.
int	id Unique identifier of this instruction.
<pre>protected static String[]</pre>	lirMnemonic  Maps JVM opcode to a string mnemonic for LIR instructions.
ArrayList <nregister></nregister>	reads Registers that store the inputs (if any) of this

instruction.

NRegister

write

Register that stores the result (if any) of this instruction.

• Constructor Summary

Constructors

Modifier

**Constructor and Description** 

protected NLIRInstruction(NBasicBlock block, int id)

Construct an NLIRInstruction.

• Method Summary

Methods

Modifier and Type

**Method and Description** 

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 ASSIGNMENTED TO THE LEAST HELD

String toString()

Return a string representation of this instruction.

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Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, nat, powcoder

- Field Detail
  - lirMnemonic

protected staticString[] lirMnemonic

Maps JVM opcode to a string mnemonic for LIR instructions. For example, imul is mapped to the "MUL".

block

publicNBasicBlock block

The block containing this instruction.

id

publicint id

Unique identifier of this instruction.

reads

publicArrayList<NRegister> reads

Registers that store the inputs (if any) of this instruction.

write

publicNRegister write

Register that stores the result (if any) of this instruction.

#### Constructor Detail

• NLIRInstruction

Construct an NLIRInstruction.

#### Parameters:

block - enclosing block. id - identifier of the instruction.

#### Method Detail

allocatePhysicalRegisters

publicvoidallocatePhysicalRegisters()

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

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publicvoidtoSpim(PrintWriterout)

httpshis/poweroderpomite it out to the specified output stream.

#### Parameters:

## Add Welltat Bowcoder

toString

publicStringtoString()

Return a string representation of this instruction.

#### Overrides:

toString in class Object

#### Returns:

string representation of this instruction.

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