JavaScript is disabled on your browser.

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- · Summary:
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- Field |
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jminusminus

Class NHIRInstruction

- · java.lang.Object
 AnsishgnmentuPoroject Exam Help
- Direct Known Subclasses:

NHIRALdad NHIRArithmetic NHIRAStore NHIRConditional Jump, NHIRGetField, NHIRGoto, NHIRHITCONSTANT, NHIRMOKE, NHIRLocal, NHIRLocal, NHIRNewArray, NHIRPhiFunction, NHIRPutField, NHIRReturn, NHIRStringConstant

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abstract class ${\mbox{\bf NHIRInstruction}}$ extends ${\mbox{\bf Object}}$

High-level intermediate representation (HIR) of a JVM instruction.

Fields

Field Summary

Modifier and Type	Field and Description
NBasicBlock	block The block containing this instruction.
<pre>protected static String[]</pre>	hirMnemonic Maps JVM opcode to a string mnemonic for HIR instructions.
int	id Unique identifier of this instruction.
NLIRInstruction	lir The LIR instruction corresponding to this HIR instruction.

String lType
Long type name for this instruction.

String sType

Short type name for this instruction.

• Constructor Summary

Constructors

Modifier

Constructor and Description

protected NHIRInstruction(NBasicBlock block, int id)

Construct an NHIRInstruction object.

protected String SType String LType)

NHIRInstruction(NBasicBlock block, int id,

String sType, String lType)
Construct an NHIRInstruction object.

Method Summary

Methods

Modifier and Type

Method and Description

equals (NHIRInstruction other)
Assignmente otherwise that in English the other, false otherwise

id()

https://protheiderdierofthisiphruction with the short type

NLIRINSTRUCTION CONVERTE

Add Wedverpard return to two lovel representation (LIR) of this Hir instruction

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
 - hirMnemonic

protected staticString[] hirMnemonic

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

block

publicNBasicBlock block

The block containing this instruction.

id

publicint id

Unique identifier of this instruction.

sType

publicString sType

Short type name for this instruction.

IType

publicString lType

Long type name for this instruction.

• lir

publicNLIRInstruction lir

The LIR instruction corresponding to this HIR instruction.

Constructor Detail

NHIRInstruction

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

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Construct an NHIRInstruction object.

Parameters:

block - enclosing block.

id - identifier of the instruction.

sType - short type name of the instruction.

lType - long type name of the instruction.

Method Detail

equals

publicbooleanequals(NHIRInstructionother)

Return true if this instruction is the same as the other, false otherwise. Two instructions are the same if their ids are the same.

Parameters:

other - the instruction to compare to.

Returns:

true if the instructions are the same, false otherwise.

toLir

publicNLIRInstructiontoLir()

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.

Returns:

LIR instruction corresponding to this HIR instruction.

• id

```
publicStringid()
```

Return the identifier of this instruction with the short type name prefixed.

Returns:

identifier of this IR instruction with the short type name prefixed.

toString

```
publicStringtoString()
```

Return a string representation of this instruction.

Overrides:

toString in class Object

Returns:

string representation of this instruction.

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