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jminusminus

Class NLIRInvoke

- java.lang.Object
  - jminusminus.NLIRInstruction
    - jminusminus.NLIRInvoke

```
class NLIRInvoke
extends NLIRInstruction
```

LIR instruction representing method invocation instructions in JVM.

- **Field Summary**

Fields

Modifier and Type	Field and Description
String	**name** Name of the method being invoked.
int	**opcode** Opcode of the JVM instruction.
String	**target** Target for the method.

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

  block, id, lirMnemonic, reads, write

- **Constructor Summary**

Constructors

Constructor and Description

NLIRInvoke(NBasicBlock block, int id, int opcode,
String target, String name, ArrayList<NRegister> arguments,
String sType, String lType)
Construct an NHIRInvoke 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

    Opcode of the JVM instruction.

    - **target**

    publicString target

    Target for the method.

    - **name**

    publicString name

    Name of the method being invoked.

- **Constructor Detail**

    - **NLIRInvoke**

    publicNLIRInvoke(NBasicBlockblock,
            intid,
            intopcode,
            Stringtarget,
            Stringname,
            ArrayList<NRegister>arguments,
            StringsType,
            StringlType)

Construct an NHIRInvoke instruction.

Parameters:
    `block` - enclosing block.
    `id` - identifier of the instruction.
    `opcode` - opcode of the JVM instruction.
    `target` - target of the method.
    `name` - name of the method.
    `arguments` - list of register storing the of arguments for the method.
    `sType` - return type (short name) of the method.
    `lType` - return type (long name) of the method.

- **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(PrettyPrinter out)`

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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