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jminusminus

## Class NHIRInvoke

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

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HIR instruction representing method invocation instructions in JVM.

- **Field Summary**

Fields	
Modifier and Type	Field and Description
<code>ArrayList&lt;Integer&gt;</code>	<b>arguments</b> List of HIR ids of arguments for the method.
<code>String</code>	<b>name</b> Name of the method being invoked.
<code>int</code>	<b>opcode</b> Opcode of the JVM instruction.
<code>String</code>	<b>target</b> Target for the method.

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

- **Constructor Summary**

Constructors  
**Constructor and Description**

```
NHIRInvoke(NBasicBlock block, int id, int opcode,  
String target, String name, ArrayList<Integer> arguments,  
String sType, String lType)  
Construct an NHIRInvoke instruction.
```

- **Method Summary**

Methods

**Modifier and Type**

**Method and Description**

```
NLIRInstruction toLir()  
Convert and return a low-level representation (LIR) of this  
HIR instruction.  
  
String toString()  
Return a string representation of this instruction.
```

- **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`

- **Field Detail**

- **opcode**

`public int opcode`

Opcode of the JVM instruction.

- **target**

`public String target`

Target for the method.

- **name**

`public String name`

Name of the method being invoked.

- **arguments**

`public ArrayList<Integer> arguments`

List of HIR ids of arguments for the method.

- **Constructor Detail**

- **NHIRInvoke**

`public NHIRInvoke(NBasicBlock block,`

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```
intid,  
intopcode,  
Stringtarget,  
Stringname,  
ArrayList<Integer>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 HIR ids of arguments for the method.  
sType - return type (short name) of the method.  
lType - return type (long name) of the method.

- **Method Detail**

- **toLir**

```
publicNLIRInstructiontoLir()
```

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**

```
publicStringtoString()
```

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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