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jminusminus

Class NLIRALoad

- [java.lang.Object](#)
 - [jminusminus.NLIRInstruction](#)
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```
class NLIRALoad  
extends NLIRInstruction
```

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LIR instruction representing JVM array load instructions.

• Field Summary

Fields	
Modifier and Type	Field and Description

int	opcode Opcode of the JVM instruction.
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- **Fields inherited from class [jminusminus.NLIRInstruction](#)**

[block](#), [id](#), [lirMnemonic](#), [reads](#), [write](#)

• Constructor Summary

Constructors	
Constructor and Description	

```
NLIRALoad(NBasicBlock block, int id, int opcode,  
NLIRInstruction arrayRef, NLIRInstruction index,
```

```
String sType, String lType)
Construct an NLIRALoad instruction.
```

- **Method Summary**

Methods	
Modifier and Type	Method and Description
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 jminusminus.NLIRInstruction**

`allocatePhysicalRegisters`

- **Methods inherited from class java.lang.Object**

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait`

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- **Field Detail**

- **opcode**

`public final int opcode`

Opcode of the JVM instruction.

- **Constructor Detail**

- **NLIRALoad**

```
public NLIRALoad(NBasicBlock block,
    int id,
    int opcode,
    NLIRInstruction arrayRef,
    NLIRInstruction index,
    String sType,
    String lType)
```

Construct an NLIRALoad instruction.

Parameters:

block - enclosing block.
id - identifier of the instruction.
opcode - JVM opcode for the instruction.
arrayRef - LIR of the array reference.
index - LIR of the array index.
sType - type (short name) of the array.
lType - type (long name) of the array.

- **Method Detail**

- **toSpim**

```
public void toSpim(PrintWriter out)
```

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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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