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jminusminus

Class NLIRGetField

- java.lang.Object
  - jminusminus.NLIRInstruction
    - jminusminus.NLIRGetField

```
class NLIRGetField
extends NLIRInstruction
```

LIR instruction representing JVM (get) field instructions.

- **Field Summary**

Fields

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

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

  block, id, lirMnemonic, reads, write

- **Constructor Summary**

Constructors

NLIRGetField(NBasicBlock block, int id, int opcode, String target, String name, String sType, String lType)
Construct an NLIRGetField 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**

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

- **Field Detail**

  - **opcode**

  public int opcode

  Opcode of the JVM instruction.

  - **target**

  publicString target

  Target for the field.

  - **name**

  publicString name

  Name of the field being accessed.

- **Constructor Detail**

  - **NLIRGetField**

  publicNLIRGetField(NBasicBlockblock,
              intid,
              intopcode,
              Stringtarget,
              Stringname,
              StringsType,
              StringlType)

  Construct an NLIRGetField instruction.

Parameters:

`block` - enclosing block.

`id` - identifier of the instruction.

`opcode` - JVM opcode for the return instruction.

`target` - target for the field.

`name` - name of the field.

`sType` - type (short name) of the field.

`lType` - type (long name) of the field.

- **Method Detail**

  - **toSpim**

  `public void toSpim(PrintWriter 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**

  `public String toString()`

  Description copied from class: `NLIRInstruction`

  Return a string representation of this instruction.

  Overrides:

  `toString` in class `NLIRInstruction`

  Returns:

  string representation of this instruction.