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jminusminus

Class NHIRALoad

- java.lang.Object
  - jminusminus.NHIRInstruction
    - jminusminus.NHIRALoad

```
class NHIRALoad
extends NHIRInstruction
```

HIR instruction representing JVM array load instructions.

- **Field Summary**

  Fields

Modifier and Type	Field and Description
int	**arrayRef** HIR id of the array reference.
int	**index** HIR id of the array index.
int	**opcode** Opcode of the JVM instruction.

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

  block, hirMnemonic, id, lir, lType, sType

- **Constructor Summary**

  Constructors

NHIRALoad(NBasicBlock block, int id, int opcode,
int arrayRef, int index, String sType, String lType)
Construct an NHIRALoad 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**

  publicint opcode

  Opcode of the JVM instruction.

  - **arrayRef**

  publicint arrayRef

  HIR id of the array reference.

  - **index**

  publicint index

  HIR id of the array index.

- **Constructor Detail**

  - **NHIRALoad**

  publicNHIRALoad(NBasicBlockblock,
          intid,
          intopcode,
          intarrayRef,
          intindex,
          StringsType,
          StringlType)

  Construct an NHIRALoad instruction.
  Parameters:

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

- **Method Detail**

  - **toLir**

    public NLIRInstruction toLir()

    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**

    public String toString()

    Description copied from class: `NHIRInstruction`

    Return a string representation of this instruction.

    Overrides:
      toString in class NHIRInstruction
    Returns:
      string representation of this instruction.