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jminusminus

Class NHIRNewArray

- java.lang.Object
    - jminusminus.NHIRInstruction
        - jminusminus.NHIRNewArray

```
class NHIRNewArray
extends NHIRInstruction
```

HIR instruction representing JVM array creation instructions.

- **Field Summary**

    Fields

Modifier and Type	Field and Description
int	**dim** Dimension of the array.
int	**opcode** Opcode of the JVM instruction.

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

    block, hirMnemonic, id, lir, lType, sType

- **Constructor Summary**

    Constructors

    Constructor and Description

```
NHIRNewArray(NBasicBlock block, int id, int opcode, int dim,
String sType, String lType)
```
Construct an NHIRNewArray 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.

  - **dim**

  public int dim

  Dimension of the array.

- **Constructor Detail**

  - **NHIRNewArray**

  ```
  public NHIRNewArray(NBasicBlock block,
          int id,
          int opcode,
          int dim,
          String sType,
          String lType)
  ```

  Construct an NHIRNewArray instruction.

  Parameters:
      block - enclosing block.
      id - identifier of the instruction.
      opcode - JVM opcode for the instruction.
      dim - dimension of the array.
      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.