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jminusminus

Class NHIRPhiFunction

- java.lang.Object
  - jminusminus.NHIRInstruction
    - jminusminus.NHIRPhiFunction

```
class NHIRPhiFunction
extends NHIRInstruction
```

HIR instruction representing phi functions.

- **Field Summary**

Fields

Modifier and Type	Field and Description
ArrayList<Integer>	**arguments** List of HIR ids of arguments for the phi function.
int	**local** Local variable index.

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

  block, hirMnemonic, id, lir, lType, sType

- **Constructor Summary**

Constructors

Constructor and Description
NHIRPhiFunction(NBasicBlock block, int id,

```
ArrayList<Integer> arguments, int local)
```
Construct an NHIRPhiFunction instruction.

- **Method Summary**

Methods

Modifier and Type	Method and Description
void	**inferType**() Infer type for this phi function.
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**

  - **arguments**

  publicArrayList<Integer> arguments

  List of HIR ids of arguments for the phi function.

  - **local**

  publicint local

  Local variable index.

- **Constructor Detail**

  - **NHIRPhiFunction**

  publicNHIRPhiFunction(NBasicBlockblock,
                intid,
                ArrayList<Integer>arguments,
                intlocal)

  Construct an NHIRPhiFunction instruction.
  Parameters:
      block - enclosing block.
      id - identifier of the instruction.
      arguments - list of HIR ids of arguments for the phi function.
      local - local variable index.

- **Method Detail**

  - **inferType**

  publicvoidinferType()

Infer type for this phi function. It is essentially the type of the arguments.

- **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.