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- [Prev Class](#)
- [Next Class](#)

- [Frames](#)
- [No Frames](#)

- [All Classes](#)

- [Summary:](#)
- [Nested |](#)
- [Field |](#)
- [Constr |](#)
- [Method](#)

- [Detail:](#)
- [Field |](#)
- [Constr |](#)
- [Method](#)

jminusminus

Class NHIRASTore

- [java.lang.Object](#)
 - [jminusminus.NHIRInstruction](#)
 - [jminusminus.NHIRASTore](#)

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```
class NHIRASTore  
extends NHIRInstruction
```

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HIR instruction representing JVM array store 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.
int	value HIR id of the value to store.

- **Fields inherited from class jminusminus.NHIRInstruction**
`block, hirMnemonic, id, lir, lType, sType`

- **Constructor Summary**

Constructors
Constructor and Description

```
NHIRStore(NBasicBlock block, int id, int opcode,
int arrayRef, int index, int value, String sType,
String lType)
Construct an NHIRStore 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.

- **arrayRef**

public int arrayRef

HIR id of the array reference.

- **index**

public int index

HIR id of the array index.

- **value**

public int value

HIR id of the value to store.

- **Constructor Detail**

- **NHIRStore**

public NHIRStore(NBasicBlock block,

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```
intid,  
intopcode,  
intarrayRef,  
intindex,  
intvalue,  
StringsType,  
StringlType)
```

Construct an NHIRASore 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 array index.
value - HIR id of the value to store.
sType - type (short name) of the array.
lType - type (long name) of the array.

- **Method Detail**

- **toLir**

```
publicNLIRInstructiontoLir()
```

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**

```
publicStringtoString()
```

Description copied from class: **NHIRInstruction**

Return a string representation of this instruction.

Overrides:

toString in class **NHIRInstruction**

Returns:

string representation of this instruction.

- Overview
- Package
- **Class**
- Tree
- Deprecated
- Index
- Help

- **Prev Class**
- **Next Class**

- Frames
- No Frames

- All Classes

- Summary:
- Nested |
- Field |
- Constr |
- Method

- Detail:
- Field |
- Constr |
- Method

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