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jminusminus

Class NRegisterAllocator

- [java.lang.Object](#)
 - [jminusminus.NRegisterAllocator](#)
- Direct Known Subclasses:
 - [NGraphRegisterAllocator](#), [NLinearRegisterAllocator](#), [NNaiveRegisterAllocator](#)

```
public abstract class NRegisterAllocator  
extends Object
```

A register allocator maps virtual registers (from LIR code) to physical registers on the target machine. That there are a limited number of physical registers makes this interesting.

• Field Summary

Fields	
Modifier and Type	Field and Description
protected NControlFlowGraph	cfg The control flow graph for a method.

• Constructor Summary

Constructors	
Modifier	Constructor and Description
protected	NRegisterAllocator (NControlFlowGraph cfg) Construct an NRegisterAllocator object given the control flow graph for method.

- **Method Summary**

Methods	
Modifier and Type	Method and Description
abstract void	allocation() The work horse that does the allocation, implemented in the concrete sub-classes of NRegisterAllocator.
protected void	buildIntervals() Build the intervals for a control flow graph.

- **Methods inherited from class java.lang.Object**

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

- **Field Detail**

- **cfg**

`protected NControlFlowGraph cfg`

The control flow graph for a method.

- **Constructor Detail**

- **NRegisterAllocator**

`protected NRegisterAllocator(NControlFlowGraph cfg)`

Construct an NRegisterAllocator object given the control flow graph for method.

Parameters:

`cfg` - control flow graph for a method.

- **Method Detail**

- **allocation**

`public abstract void allocation()`

The work horse that does the allocation, implemented in the concrete sub-classes of NRegisterAllocator.

- **buildIntervals**

`protected void buildIntervals()`

Build the intervals for a control flow graph.

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