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jminusminus

Class NNaiveRegisterAllocator

- java.lang.Object
  - jminusminus.NRegisterAllocator
    - jminusminus.NNaiveRegisterAllocator

```
public class NNaiveRegisterAllocator
extends NRegisterAllocator
```

Implemets a naive register allocation method. Each interval is considered live for the entire cfg. Intervals are assigned physical registers on a first come basis. When we run out of registers, we reuse the ones already assigned and spill.

- **Field Summary**

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

  cfg

- **Constructor Summary**

  Constructors

  Constructor and Description

  NNaiveRegisterAllocator(NControlFlowGraph cfg)
  Construct a NNaiveRegisterAllocator.

- **Method Summary**

  Methods

Modifier and Type	Method and Description

void	**allocation**() Build intervals with (naive) register allocation information in them.

- **Methods inherited from class jminusminus.NRegisterAllocator**

  buildIntervals

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

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

- **Constructor Detail**

  - **NNaiveRegisterAllocator**

  publicNNaiveRegisterAllocator(NControlFlowGraphcfg)

  Construct a NNaiveRegisterAllocator.
  Parameters:
      cfg - an instance of a control flow graph.

- **Method Detail**

  - allocation

  publicvoidallocation()

  Build intervals with (naive) register allocation information in them.
  Specified by:
      allocation in class NRegisterAllocator