JavaScript is disabled on your browser.

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- Summary:
- Nested |
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jminusminus

Class CLFlowControlInstruction

· java.lang.Object Project Exam Help

• jminusminus.CLFlowControlInstruction

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class clflowand din we on hat powcoder extends CLInstruction

Representation for FLOW_CONTROL1, FLOW_CONTROL2, FLOW_CONTROL3 and FLOW CONTROL4 instructions.

- Field Summary
- Fields inherited from class jminusminus.CLInstruction
 instructionInfo, localVariableIndex, mnemonic, opcode,
 operandCount, pc, stackUnits
- Constructor Summary

Constructors

Constructor and Description

CLFlowControlInstruction(int pc, int index,
boolean isWidened)

Construct a CLFlowControlInstruction object for RET instruction.

CLFlowControlInstruction(int opcode, int pc, String jumpToLabel)

Construct a CLFlowControlInstruction object for FLOW_CONTROL1 instructions.

CLFlowControlInstruction(int opcode, int pc,

String defaultLabel, int low, int high,
ArrayList<String> labels)

Construct a CLFlowControlInstruction object for TABLESWITCH instruction.

CLFlowControlInstruction(int opcode, int pc,
String defaultLabel, int numPairs,
TreeMap<Integer,String> matchLabelPairs)

Construct a CLFlowControlInstruction object for LOOKUPSWITCH instruction.

Method Summary

Methods

Modifier and Type

Method and Description

	int	jumpToOffset()
		Return the pc of instruction to jump to.
	boolean	<pre>resolveLabels(Hashtable<string,integer> label TOPC)</string,integer></pre>
		Resolve the jump labels to the corresponding offset values using the given label to pc mapping.
	Arraylist Into	

ArrayList<Inte toBytes()</pre>

ger>

toBytes()

Return the bytecode for this instruction.

Assignment Project Exam Help Methods inherited from class jminusminus.CLInstruction

byteAt, isValid, localVariableIndex, mnemonic, opcode,

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notify, the color of the power of the color of the colo

Constructor Detail

• CLFlowControlInstruction

Construct a CLFlowControlInstruction object for FLOW_CONTROL1 instructions.

Parameters:

opcode - the opcode for this instruction.
pc - index of this instruction within the code array of a method.
jumpToLabel - the label to jump to.

• CLFlowControlInstruction

Construct a CLFlowControlInstruction object for RET instruction.

Parameters:

pc - index of this instruction within the code array of a method.

index - index of the local variable containing the return address. isWidened - whether this instruction is preceded by the WIDE (widening) instruction.

• CLFlowControlInstruction

Construct a CLFlowControlInstruction object for TABLESWITCH instruction.

Parameters:

opcode - the opcode for this instruction.

pc - index of this instruction within the code array of a method.

defaultLabel - jump label for default value.

low - smallest value of index.

high - highest value of index.

labels - list of jump labels for each index value from low to high, end values included.

CLFlowControlInstruction

Assignment Project, Exam Help

StringdefaultLabel, intnumPairs,

TreeMap<Integer, String>matchLabelPairs)

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Construct a CLFlowControlInstruction object for LOOKUPSWITCH instruction.

Pardeter We Chat powcoder or the opcode for this instruction.

pc - index of this instruction within the code array of a method.

defaultLabel - jump label for default value.

numPairs - number of pairs in the match table.

matchLabelPairs - key match table.

Method Detail

resolveLabels

publicbooleanresolveLabels(Hashtable<String, Integer>labelToPC)

Resolve the jump labels to the corresponding offset values using the given label to pc mapping. If unable to resolve a label, the offset is set such that the next instruction will be executed.

Parameters:

labelToPC - label to pc mapping.

Returns:

true if all labels were resolved successfully; false otherwise.

jumpToOffset

publicintjumpToOffset()

Return the pc of instruction to jump to.

Returns:

pc to jump to.

• toBytes

publicArrayList<Integer>toBytes()

Description copied from class: CLInstruction

Return the bytecode for this instruction.

Specified by:

toBytes in class CLInstruction

Returns:

bytecode.

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