JavaScript is disabled on your browser.

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iminusminus

Class NPhysicalRegister

- java.lang.Object -Arssignment Project Exam Help

 iminusminus.NPhysicalRegister

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Fields

class NPhysiAid of WeChat powcoder extends NRegister

An abstraction for a physical (SPIM) register.

Field Summary

Modifier and Type	Field and Description
static int	A0 Argument 1.
static int	A1 Argument 2.
static int	A2 Argument 3.
static int	A3 Argument 4.
static int	AT Reserved for assembler.
static int	FP Frame pointer.

	static	int	GP Pointer to global area.
	static	int	K0 Reserved for OS kernel.
	static	int	K1 Reserved for OS kernel.
	static	int	MAX_COUNT Maximum number of physical registers used for allocation, starting at T0.
	static	int	RA Return address (used by function call).
	static NPhysic	calRegister[]	regInfo Maps register number to the register's representation.
	static	int	S0 Temporary (preserved across call).
	static	int	S1 Temporary (preserved across call).
F	static 1881g	intment Pro	Jecta Examed Help III).
	static	int	Temporary (preserved across call).
	ctatic	iups://pow	çoder.com
	Static	TILE	
			Temporary (preserved across call).
		Add WeCh	Temporary (preserved across call).
	static	int WeCh	Temporary (preserved across call). at powcoder Temporary (preserved across call). s6
	static	int	Temporary (preserved across call). at powcoder Temporary (preserved across call). s6 Temporary (preserved across call). s7
	static static static	int int int	Temporary (preserved across call). St powcoder Temporary (preserved across call). S6 Temporary (preserved across call). S7 Temporary (preserved across call). SP
	static static static static	int int int int int	Temporary (preserved across call). at powcoder Temporary (preserved across call). s6 Temporary (preserved across call). s7 Temporary (preserved across call). sP Stack pointer. T0
	static static static static	int int int int int int	Temporary (preserved across call). St powcoder Temporary (preserved across call). S6 Temporary (preserved across call). S7 Temporary (preserved across call). SP Stack pointer. T0 Temporary (not preserved across call). T1
	static static static static static	int int int int int int int int	Temporary (preserved across call). St powcoder Temporary (preserved across call). S6 Temporary (preserved across call). S7 Temporary (preserved across call). SP Stack pointer. T0 Temporary (not preserved across call). T1 Temporary (not preserved across call). T2
	static static static static static static	int int int int int int int int int	Temporary (preserved across call). at powcoder Temporary (preserved across call). s6 Temporary (preserved across call). s7 Temporary (preserved across call). sP Stack pointer. T0 Temporary (not preserved across call). T1 Temporary (not preserved across call). T2 Temporary (not preserved across call). T3
	static static static static static static static	int	Temporary (preserved across call). at powcoder Temporary (preserved across call). S6 Temporary (preserved across call). S7 Temporary (preserved across call). SP Stack pointer. T0 Temporary (not preserved across call). T1 Temporary (not preserved across call). T2 Temporary (not preserved across call). T3 Temporary (not preserved across call). T3 Temporary (not preserved across call). T4

static int	T6 Temporary (not preserved across call).
static int	T7 Temporary (not preserved across call).
static int	T8 Temporary (not preserved across call).
static int	T9 Temporary (not preserved across call).
static int	V0Expression evaluation and results of a function.
static int	V1 Expression evaluation and results of a function.
static int	ZERO Constant 0.

- Fields inherited from class jminusminus.NRegister name, number
- Constructor Summary

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NPhysical Register (intermeded extring name)
Construct and Physical Register.

· Method Summary Add WeChat powcoder

Modifier and Type

Method and Description

String	toString()
String	Return a string representation of this physical
	register.

- Methods inherited from class jminusminus.NRegister name, number
- Methods inherited from class java.lang.Object
 clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait
- Field Detail
 - MAX COUNT

public staticint MAX_COUNT

Maximum number of physical registers used for allocation, starting at T0.

ZERO

public static finalint ZERO

Constant 0.

See Also:

Constant Field Values

AT

public static finalint AT

Reserved for assembler.

See Also:

Constant Field Values

• V0

public static finalint V0

Expression evaluation and results of a function.

See Also:

Constant Field Values

• V1

public static finalint V1

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See Also:

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public static finalint A0

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See Also:

Constant Field Values

• A1

public static finalint A1

Argument 2.

See Also:

Constant Field Values

• A2

public static finalint A2

Argument 3.

See Also:

Constant Field Values

• A3

public static finalint A3

Argument 4.

See Also:

public static finalint TO

Temporary (not preserved across call).

See Also:

Constant Field Values

• T1

public static finalint T1

Temporary (not preserved across call).

See Also:

Constant Field Values

• T2

public static finalint T2

Temporary (not preserved across call).

See Also:

Constant Field Values

T3

public static finalint T3

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See Also:

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public static finalint T4

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See Also:

Constant Field Values

• T5

public static finalint T5

Temporary (not preserved across call).

See Also:

Constant Field Values

• T6

public static finalint T6

Temporary (not preserved across call).

See Also:

Constant Field Values

• T7

public static finalint T7

Temporary (not preserved across call).

See Also:

public static finalint SO

Temporary (preserved across call).

See Also:

Constant Field Values

• S1

public static finalint S1

Temporary (preserved across call).

See Also:

Constant Field Values

• S2

public static finalint S2

Temporary (preserved across call).

See Also:

Constant Field Values

• S3

public static finalint S3

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See Also:

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public static finalint S4

Addry We Chatspowcoder

See Also:

Constant Field Values

• S5

public static finalint S5

Temporary (preserved across call).

See Also:

Constant Field Values

• S6

public static finalint S6

Temporary (preserved across call).

See Also:

Constant Field Values

• S7

public static finalint S7

Temporary (preserved across call).

See Also:

public static finalint T8

Temporary (not preserved across call).

See Also:

Constant Field Values

T9

public static finalint T9

Temporary (not preserved across call).

See Also:

Constant Field Values

• K0

public static finalint K0

Reserved for OS kernel.

See Also:

Constant Field Values

• K1

public static finalint K1

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See Also:

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public static finalint GP

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See Also:

Constant Field Values

• **SP**

public static finalint SP

Stack pointer.

See Also:

Constant Field Values

FP

public static finalint FP

Frame pointer.

See Also:

Constant Field Values

RA

public static finalint RA

Return address (used by function call).

See Also:

regInfo

public static finalNPhysicalRegister[] regInfo

Maps register number to the register's representation.

Constructor Detail

• NPhysicalRegister

publicNPhysicalRegister(intnumber, Stringname)

Construct an NPhysicalRegister.

Parameters:

number - number of the register. name - name of the register.

Method Detail

toString

publicStringtoString()

Return a string representation of this physical register.

Overrides:

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string representation.

Prev Class

Next Class

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