OVERVIEW PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS **NEXT CLASS** FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

compact1, compact2, compact3 java.util.concurrent.atomic

Class AtomicBoolean

java.lang.Object

java.util.concurrent.atomic.AtomicBoolean

All Implemented Interfaces:

Serializable

public class AtomicBoolean
extends Object
implements Serializable

A boolean value that may be updated atomically. See the java.util.concurrent.atomic package specification for description of the properties of atomic variables. An AtomicBoolean is used in applications such as atomically updated flags, and cannot be used as a replacement for a Boolean.

Since:

1.5

See Also:

Serialized Form

Constructor Summary

Constructors

Constructor	Description	
AtomicBoolean()	Creates a new AtomicBoolean with initial value false.	
AtomicBoolean(boolean initialValue)	Creates a new AtomicBoolean with the given initial value.	

Method Summary

All Methods Inst	ance Methods	Concrete Methods	
Modifier and Type	Method		Description
boolean	compareAndSet() boolean update	' '	Atomically sets the value to the given updated value if the

current value == the expected value.

Returns the current.

boolean **get**()

value.

boolean getAndSet(boolean newValue)

Atomically sets to the given value and returns

the previous value.

Eventually sets to the given value.

Unconditionally sets to the given value.

String toString()

Returns the String representation of the

current value.

boolean weakCompareAndSet(boolean expect, Atomically sets the

boolean update)

value to the given updated value if the current value == the expected value.

Methods inherited from class java.lang.Object

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

Constructor Detail

AtomicBoolean

public AtomicBoolean(boolean initialValue)

Creates a new AtomicBoolean with the given initial value.

Parameters:

initialValue - the initial value

AtomicBoolean

public AtomicBoolean()

Creates a new AtomicBoolean with initial value false.

Method Detail

get

public final boolean get()

Returns the current value.

Returns:

the current value

compareAndSet

Atomically sets the value to the given updated value if the current value == the expected value.

Parameters:

expect - the expected value

update - the new value

Returns:

true if successful. False return indicates that the actual value was not equal to the expected value.

weakCompareAndSet

Atomically sets the value to the given updated value if the current value == the expected value.

May fail spuriously and does not provide ordering guarantees, so is only rarely an appropriate alternative to compareAndSet.

Parameters:

expect - the expected value

update - the new value

Returns:

true if successful

set

public final void set(boolean newValue)

Unconditionally sets to the given value.

Parameters:

newValue - the new value

lazySet

public final void lazySet(boolean newValue)

Eventually sets to the given value.

Parameters:

newValue - the new value

Since:

1.6

getAndSet

public final boolean getAndSet(boolean newValue)

Atomically sets to the given value and returns the previous value.

Parameters:

newValue - the new value

Returns:

the previous value

toString

public String toString()

Returns the String representation of the current value.

Overrides:

toString in class Object

Returns:

the String representation of the current value

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Java™ Platform Standard Ed. 8

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Submit a bug or feature

For further API reference and developer documentation, see Java SE Documentation. That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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