| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CounterMonitor.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/monitor/CounterMonitor.html)    [**NO FRAMES**](http://docs.google.com/CounterMonitor.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## **javax.management.monitor**

Class CounterMonitor

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.management.NotificationBroadcasterSupport](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html)  
 [javax.management.monitor.Monitor](http://docs.google.com/javax/management/monitor/Monitor.html)  
 **javax.management.monitor.CounterMonitor**

**All Implemented Interfaces:** [MBeanRegistration](http://docs.google.com/javax/management/MBeanRegistration.html), [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html), [MonitorMBean](http://docs.google.com/javax/management/monitor/MonitorMBean.html), [NotificationBroadcaster](http://docs.google.com/javax/management/NotificationBroadcaster.html), [NotificationEmitter](http://docs.google.com/javax/management/NotificationEmitter.html)

public class **CounterMonitor**extends [Monitor](http://docs.google.com/javax/management/monitor/Monitor.html)implements [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html)

Defines a monitor MBean designed to observe the values of a counter attribute.

A counter monitor sends a [threshold notification](http://docs.google.com/javax/management/monitor/MonitorNotification.html#THRESHOLD_VALUE_EXCEEDED) when the value of the counter reaches or exceeds a threshold known as the comparison level. The notify flag must be set to true.

In addition, an offset mechanism enables particular counting intervals to be detected. If the offset value is not zero, whenever the threshold is triggered by the counter value reaching a comparison level, that comparison level is incremented by the offset value. This is regarded as taking place instantaneously, that is, before the count is incremented. Thus, for each level, the threshold triggers an event notification every time the count increases by an interval equal to the offset value.

If the counter can wrap around its maximum value, the modulus needs to be specified. The modulus is the value at which the counter is reset to zero.

If the counter difference mode is used, the value of the derived gauge is calculated as the difference between the observed counter values for two successive observations. If this difference is negative, the value of the derived gauge is incremented by the value of the modulus. The derived gauge value (V[t]) is calculated using the following method:

* if (counter[t] - counter[t-GP]) is positive then V[t] = counter[t] - counter[t-GP]
* if (counter[t] - counter[t-GP]) is negative then V[t] = counter[t] - counter[t-GP] + MODULUS

This implementation of the counter monitor requires the observed attribute to be of the type integer (Byte, Integer, Short, Long).

**Since:** 1.5

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class javax.management.monitor.**[**Monitor**](http://docs.google.com/javax/management/monitor/Monitor.html) |
| --- |
| [alreadyNotified](http://docs.google.com/javax/management/monitor/Monitor.html#alreadyNotified), [alreadyNotifieds](http://docs.google.com/javax/management/monitor/Monitor.html#alreadyNotifieds), [capacityIncrement](http://docs.google.com/javax/management/monitor/Monitor.html#capacityIncrement), [dbgTag](http://docs.google.com/javax/management/monitor/Monitor.html#dbgTag), [elementCount](http://docs.google.com/javax/management/monitor/Monitor.html#elementCount), [OBSERVED\_ATTRIBUTE\_ERROR\_NOTIFIED](http://docs.google.com/javax/management/monitor/Monitor.html#OBSERVED_ATTRIBUTE_ERROR_NOTIFIED), [OBSERVED\_ATTRIBUTE\_TYPE\_ERROR\_NOTIFIED](http://docs.google.com/javax/management/monitor/Monitor.html#OBSERVED_ATTRIBUTE_TYPE_ERROR_NOTIFIED), [OBSERVED\_OBJECT\_ERROR\_NOTIFIED](http://docs.google.com/javax/management/monitor/Monitor.html#OBSERVED_OBJECT_ERROR_NOTIFIED), [RESET\_FLAGS\_ALREADY\_NOTIFIED](http://docs.google.com/javax/management/monitor/Monitor.html#RESET_FLAGS_ALREADY_NOTIFIED), [RUNTIME\_ERROR\_NOTIFIED](http://docs.google.com/javax/management/monitor/Monitor.html#RUNTIME_ERROR_NOTIFIED), [server](http://docs.google.com/javax/management/monitor/Monitor.html#server) |

| **Constructor Summary** | |
| --- | --- |
| [**CounterMonitor**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#CounterMonitor())()            Default constructor. |

| **Method Summary** | |
| --- | --- |
| [Number](http://docs.google.com/java/lang/Number.html) | [**getDerivedGauge**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGauge())()  **Deprecated.** *As of JMX 1.2, replaced by* [*getDerivedGauge(ObjectName)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGauge(javax.management.ObjectName)) |
| [Number](http://docs.google.com/java/lang/Number.html) | [**getDerivedGauge**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGauge(javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) object)            Gets the derived gauge of the specified object, if this object is contained in the set of observed MBeans, or null otherwise. |
| long | [**getDerivedGaugeTimeStamp**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGaugeTimeStamp())()  **Deprecated.** *As of JMX 1.2, replaced by* [*getDerivedGaugeTimeStamp(ObjectName)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGaugeTimeStamp(javax.management.ObjectName)) |
| long | [**getDerivedGaugeTimeStamp**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGaugeTimeStamp(javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) object)            Gets the derived gauge timestamp of the specified object, if this object is contained in the set of observed MBeans, or 0 otherwise. |
| boolean | [**getDifferenceMode**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDifferenceMode())()            Gets the difference mode flag value common to all observed MBeans. |
| [Number](http://docs.google.com/java/lang/Number.html) | [**getInitThreshold**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getInitThreshold())()            Gets the initial threshold value common to all observed objects. |
| [Number](http://docs.google.com/java/lang/Number.html) | [**getModulus**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getModulus())()            Gets the modulus value common to all observed MBeans. |
| [MBeanNotificationInfo](http://docs.google.com/javax/management/MBeanNotificationInfo.html)[] | [**getNotificationInfo**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getNotificationInfo())()            Returns a NotificationInfo object containing the name of the Java class of the notification and the notification types sent by the counter monitor. |
| boolean | [**getNotify**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getNotify())()            Gets the notification's on/off switch value common to all observed MBeans. |
| [Number](http://docs.google.com/java/lang/Number.html) | [**getOffset**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getOffset())()            Gets the offset value common to all observed MBeans. |
| [Number](http://docs.google.com/java/lang/Number.html) | [**getThreshold**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getThreshold())()  **Deprecated.** *As of JMX 1.2, replaced by* [*getThreshold(ObjectName)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getThreshold(javax.management.ObjectName)) |
| [Number](http://docs.google.com/java/lang/Number.html) | [**getThreshold**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getThreshold(javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) object)            Gets the current threshold value of the specified object, if this object is contained in the set of observed MBeans, or null otherwise. |
| void | [**setDifferenceMode**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setDifferenceMode(boolean))(boolean value)            Sets the difference mode flag value common to all observed MBeans. |
| void | [**setInitThreshold**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setInitThreshold(java.lang.Number))([Number](http://docs.google.com/java/lang/Number.html) value)            Sets the initial threshold value common to all observed objects. |
| void | [**setModulus**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setModulus(java.lang.Number))([Number](http://docs.google.com/java/lang/Number.html) value)            Sets the modulus value common to all observed MBeans. |
| void | [**setNotify**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setNotify(boolean))(boolean value)            Sets the notification's on/off switch value common to all observed MBeans. |
| void | [**setOffset**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setOffset(java.lang.Number))([Number](http://docs.google.com/java/lang/Number.html) value)            Sets the offset value common to all observed MBeans. |
| void | [**setThreshold**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setThreshold(java.lang.Number))([Number](http://docs.google.com/java/lang/Number.html) value)  **Deprecated.** *As of JMX 1.2, replaced by* [*setInitThreshold(java.lang.Number)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setInitThreshold(java.lang.Number)) |
| void | [**start**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#start())()            Starts the counter monitor. |
| void | [**stop**](http://docs.google.com/javax/management/monitor/CounterMonitor.html#stop())()            Stops the counter monitor. |

| **Methods inherited from class javax.management.monitor.**[**Monitor**](http://docs.google.com/javax/management/monitor/Monitor.html) |
| --- |
| [addObservedObject](http://docs.google.com/javax/management/monitor/Monitor.html#addObservedObject(javax.management.ObjectName)), [containsObservedObject](http://docs.google.com/javax/management/monitor/Monitor.html#containsObservedObject(javax.management.ObjectName)), [getGranularityPeriod](http://docs.google.com/javax/management/monitor/Monitor.html#getGranularityPeriod()), [getObservedAttribute](http://docs.google.com/javax/management/monitor/Monitor.html#getObservedAttribute()), [getObservedObject](http://docs.google.com/javax/management/monitor/Monitor.html#getObservedObject()), [getObservedObjects](http://docs.google.com/javax/management/monitor/Monitor.html#getObservedObjects()), [isActive](http://docs.google.com/javax/management/monitor/Monitor.html#isActive()), [postDeregister](http://docs.google.com/javax/management/monitor/Monitor.html#postDeregister()), [postRegister](http://docs.google.com/javax/management/monitor/Monitor.html#postRegister(java.lang.Boolean)), [preDeregister](http://docs.google.com/javax/management/monitor/Monitor.html#preDeregister()), [preRegister](http://docs.google.com/javax/management/monitor/Monitor.html#preRegister(javax.management.MBeanServer,%20javax.management.ObjectName)), [removeObservedObject](http://docs.google.com/javax/management/monitor/Monitor.html#removeObservedObject(javax.management.ObjectName)), [setGranularityPeriod](http://docs.google.com/javax/management/monitor/Monitor.html#setGranularityPeriod(long)), [setObservedAttribute](http://docs.google.com/javax/management/monitor/Monitor.html#setObservedAttribute(java.lang.String)), [setObservedObject](http://docs.google.com/javax/management/monitor/Monitor.html#setObservedObject(javax.management.ObjectName)) |

| **Methods inherited from class javax.management.**[**NotificationBroadcasterSupport**](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html) |
| --- |
| [addNotificationListener](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html#addNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)), [handleNotification](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html#handleNotification(javax.management.NotificationListener,%20javax.management.Notification,%20java.lang.Object)), [removeNotificationListener](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html#removeNotificationListener(javax.management.NotificationListener)), [removeNotificationListener](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html#removeNotificationListener(javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)), [sendNotification](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html#sendNotification(javax.management.Notification)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Methods inherited from interface javax.management.monitor.**[**MonitorMBean**](http://docs.google.com/javax/management/monitor/MonitorMBean.html) |
| --- |
| [addObservedObject](http://docs.google.com/javax/management/monitor/MonitorMBean.html#addObservedObject(javax.management.ObjectName)), [containsObservedObject](http://docs.google.com/javax/management/monitor/MonitorMBean.html#containsObservedObject(javax.management.ObjectName)), [getGranularityPeriod](http://docs.google.com/javax/management/monitor/MonitorMBean.html#getGranularityPeriod()), [getObservedAttribute](http://docs.google.com/javax/management/monitor/MonitorMBean.html#getObservedAttribute()), [getObservedObject](http://docs.google.com/javax/management/monitor/MonitorMBean.html#getObservedObject()), [getObservedObjects](http://docs.google.com/javax/management/monitor/MonitorMBean.html#getObservedObjects()), [isActive](http://docs.google.com/javax/management/monitor/MonitorMBean.html#isActive()), [removeObservedObject](http://docs.google.com/javax/management/monitor/MonitorMBean.html#removeObservedObject(javax.management.ObjectName)), [setGranularityPeriod](http://docs.google.com/javax/management/monitor/MonitorMBean.html#setGranularityPeriod(long)), [setObservedAttribute](http://docs.google.com/javax/management/monitor/MonitorMBean.html#setObservedAttribute(java.lang.String)), [setObservedObject](http://docs.google.com/javax/management/monitor/MonitorMBean.html#setObservedObject(javax.management.ObjectName)) |

| **Constructor Detail** |
| --- |

### CounterMonitor

public **CounterMonitor**()

Default constructor.

| **Method Detail** |
| --- |

### start

public void **start**()

Starts the counter monitor.

**Specified by:**[start](http://docs.google.com/javax/management/monitor/MonitorMBean.html#start()) in interface [MonitorMBean](http://docs.google.com/javax/management/monitor/MonitorMBean.html)**Specified by:**[start](http://docs.google.com/javax/management/monitor/Monitor.html#start()) in class [Monitor](http://docs.google.com/javax/management/monitor/Monitor.html)

### stop

public void **stop**()

Stops the counter monitor.

**Specified by:**[stop](http://docs.google.com/javax/management/monitor/MonitorMBean.html#stop()) in interface [MonitorMBean](http://docs.google.com/javax/management/monitor/MonitorMBean.html)**Specified by:**[stop](http://docs.google.com/javax/management/monitor/Monitor.html#stop()) in class [Monitor](http://docs.google.com/javax/management/monitor/Monitor.html)

### getDerivedGauge

public [Number](http://docs.google.com/java/lang/Number.html) **getDerivedGauge**([ObjectName](http://docs.google.com/javax/management/ObjectName.html) object)

Gets the derived gauge of the specified object, if this object is contained in the set of observed MBeans, or null otherwise.

**Specified by:**[getDerivedGauge](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getDerivedGauge(javax.management.ObjectName)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**object - the name of the object whose derived gauge is to be returned. **Returns:**The derived gauge of the specified object.

### getDerivedGaugeTimeStamp

public long **getDerivedGaugeTimeStamp**([ObjectName](http://docs.google.com/javax/management/ObjectName.html) object)

Gets the derived gauge timestamp of the specified object, if this object is contained in the set of observed MBeans, or 0 otherwise.

**Specified by:**[getDerivedGaugeTimeStamp](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getDerivedGaugeTimeStamp(javax.management.ObjectName)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**object - the name of the object whose derived gauge timestamp is to be returned. **Returns:**The derived gauge timestamp of the specified object.

### getThreshold

public [Number](http://docs.google.com/java/lang/Number.html) **getThreshold**([ObjectName](http://docs.google.com/javax/management/ObjectName.html) object)

Gets the current threshold value of the specified object, if this object is contained in the set of observed MBeans, or null otherwise.

**Specified by:**[getThreshold](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getThreshold(javax.management.ObjectName)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**object - the name of the object whose threshold is to be returned. **Returns:**The threshold value of the specified object.**See Also:**[CounterMonitorMBean.setThreshold(java.lang.Number)](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#setThreshold(java.lang.Number))

### getInitThreshold

public [Number](http://docs.google.com/java/lang/Number.html) **getInitThreshold**()

Gets the initial threshold value common to all observed objects.

**Specified by:**[getInitThreshold](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getInitThreshold()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**The initial threshold.**See Also:**[setInitThreshold(java.lang.Number)](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setInitThreshold(java.lang.Number))

### setInitThreshold

public void **setInitThreshold**([Number](http://docs.google.com/java/lang/Number.html) value)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Sets the initial threshold value common to all observed objects.

The current threshold of every object in the set of observed MBeans is updated consequently.

**Specified by:**[setInitThreshold](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#setInitThreshold(java.lang.Number)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**value - The initial threshold value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - The specified threshold is null or the threshold value is less than zero.**See Also:**[getInitThreshold()](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getInitThreshold())

### getDerivedGauge

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public [Number](http://docs.google.com/java/lang/Number.html) **getDerivedGauge**()

**Deprecated.** *As of JMX 1.2, replaced by* [*getDerivedGauge(ObjectName)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGauge(javax.management.ObjectName))

Returns the derived gauge of the first object in the set of observed MBeans.

**Specified by:**[getDerivedGauge](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getDerivedGauge()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**The derived gauge.

### getDerivedGaugeTimeStamp

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public long **getDerivedGaugeTimeStamp**()

**Deprecated.** *As of JMX 1.2, replaced by* [*getDerivedGaugeTimeStamp(ObjectName)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDerivedGaugeTimeStamp(javax.management.ObjectName))

Gets the derived gauge timestamp of the first object in the set of observed MBeans.

**Specified by:**[getDerivedGaugeTimeStamp](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getDerivedGaugeTimeStamp()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**The derived gauge timestamp.

### getThreshold

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public [Number](http://docs.google.com/java/lang/Number.html) **getThreshold**()

**Deprecated.** *As of JMX 1.2, replaced by* [*getThreshold(ObjectName)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getThreshold(javax.management.ObjectName))

Gets the threshold value of the first object in the set of observed MBeans.

**Specified by:**[getThreshold](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getThreshold()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**The threshold value.**See Also:**[setThreshold(java.lang.Number)](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setThreshold(java.lang.Number))

### setThreshold

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public void **setThreshold**([Number](http://docs.google.com/java/lang/Number.html) value)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

**Deprecated.** *As of JMX 1.2, replaced by* [*setInitThreshold(java.lang.Number)*](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setInitThreshold(java.lang.Number))

Sets the initial threshold value.

**Specified by:**[setThreshold](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#setThreshold(java.lang.Number)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**value - The initial threshold value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - The specified threshold is null or the threshold value is less than zero.**See Also:**[getThreshold()](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getThreshold())

### getOffset

public [Number](http://docs.google.com/java/lang/Number.html) **getOffset**()

Gets the offset value common to all observed MBeans.

**Specified by:**[getOffset](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getOffset()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**The offset value.**See Also:**[setOffset(java.lang.Number)](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setOffset(java.lang.Number))

### setOffset

public void **setOffset**([Number](http://docs.google.com/java/lang/Number.html) value)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Sets the offset value common to all observed MBeans.

**Specified by:**[setOffset](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#setOffset(java.lang.Number)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**value - The offset value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - The specified offset is null or the offset value is less than zero.**See Also:**[getOffset()](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getOffset())

### getModulus

public [Number](http://docs.google.com/java/lang/Number.html) **getModulus**()

Gets the modulus value common to all observed MBeans.

**Specified by:**[getModulus](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getModulus()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**The modulus value.**See Also:**[setModulus(java.lang.Number)](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setModulus(java.lang.Number))

### setModulus

public void **setModulus**([Number](http://docs.google.com/java/lang/Number.html) value)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Sets the modulus value common to all observed MBeans.

**Specified by:**[setModulus](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#setModulus(java.lang.Number)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**value - The modulus value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - The specified modulus is null or the modulus value is less than zero.**See Also:**[getModulus()](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getModulus())

### getNotify

public boolean **getNotify**()

Gets the notification's on/off switch value common to all observed MBeans.

**Specified by:**[getNotify](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getNotify()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**true if the counter monitor notifies when exceeding the threshold, false otherwise.**See Also:**[setNotify(boolean)](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setNotify(boolean))

### setNotify

public void **setNotify**(boolean value)

Sets the notification's on/off switch value common to all observed MBeans.

**Specified by:**[setNotify](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#setNotify(boolean)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**value - The notification's on/off switch value.**See Also:**[getNotify()](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getNotify())

### getDifferenceMode

public boolean **getDifferenceMode**()

Gets the difference mode flag value common to all observed MBeans.

**Specified by:**[getDifferenceMode](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#getDifferenceMode()) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Returns:**true if the difference mode is used, false otherwise.**See Also:**[setDifferenceMode(boolean)](http://docs.google.com/javax/management/monitor/CounterMonitor.html#setDifferenceMode(boolean))

### setDifferenceMode

public void **setDifferenceMode**(boolean value)

Sets the difference mode flag value common to all observed MBeans.

**Specified by:**[setDifferenceMode](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html#setDifferenceMode(boolean)) in interface [CounterMonitorMBean](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) **Parameters:**value - The difference mode flag value.**See Also:**[getDifferenceMode()](http://docs.google.com/javax/management/monitor/CounterMonitor.html#getDifferenceMode())

### getNotificationInfo

public [MBeanNotificationInfo](http://docs.google.com/javax/management/MBeanNotificationInfo.html)[] **getNotificationInfo**()

Returns a NotificationInfo object containing the name of the Java class of the notification and the notification types sent by the counter monitor.

**Specified by:**[getNotificationInfo](http://docs.google.com/javax/management/NotificationBroadcaster.html#getNotificationInfo()) in interface [NotificationBroadcaster](http://docs.google.com/javax/management/NotificationBroadcaster.html)**Overrides:**[getNotificationInfo](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html#getNotificationInfo()) in class [NotificationBroadcasterSupport](http://docs.google.com/javax/management/NotificationBroadcasterSupport.html) **Returns:**the array of possible notifications.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CounterMonitor.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/management/monitor/CounterMonitorMBean.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/monitor/CounterMonitor.html)    [**NO FRAMES**](http://docs.google.com/CounterMonitor.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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