| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RC2ParameterSpec.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**](http://docs.google.com/javax/crypto/spec/PSource.PSpecified.html)   [**NEXT CLASS**](http://docs.google.com/javax/crypto/spec/RC5ParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?javax/crypto/spec/RC2ParameterSpec.html)    [**NO FRAMES**](http://docs.google.com/RC2ParameterSpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#17dp8vu) |

## **javax.crypto.spec**

Class RC2ParameterSpec

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.crypto.spec.RC2ParameterSpec**

**All Implemented Interfaces:** [AlgorithmParameterSpec](http://docs.google.com/java/security/spec/AlgorithmParameterSpec.html)

public class **RC2ParameterSpec**extends [Object](http://docs.google.com/java/lang/Object.html)implements [AlgorithmParameterSpec](http://docs.google.com/java/security/spec/AlgorithmParameterSpec.html)

This class specifies the parameters used with the [*RC2*](http://www.ietf.org/rfc/rfc2268.txt) algorithm.

The parameters consist of an effective key size and optionally an 8-byte initialization vector (IV) (only in feedback mode).

This class can be used to initialize a Cipher object that implements the *RC2* algorithm.

**Since:** 1.4

| **Constructor Summary** | |
| --- | --- |
| [**RC2ParameterSpec**](http://docs.google.com/javax/crypto/spec/RC2ParameterSpec.html#RC2ParameterSpec(int))(int effectiveKeyBits)            Constructs a parameter set for RC2 from the given effective key size (in bits). |
| [**RC2ParameterSpec**](http://docs.google.com/javax/crypto/spec/RC2ParameterSpec.html#RC2ParameterSpec(int,%20byte%5B%5D))(int effectiveKeyBits, byte[] iv)            Constructs a parameter set for RC2 from the given effective key size (in bits) and an 8-byte IV. |
| [**RC2ParameterSpec**](http://docs.google.com/javax/crypto/spec/RC2ParameterSpec.html#RC2ParameterSpec(int,%20byte%5B%5D,%20int))(int effectiveKeyBits, byte[] iv, int offset)            Constructs a parameter set for RC2 from the given effective key size (in bits) and IV. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/crypto/spec/RC2ParameterSpec.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Tests for equality between the specified object and this object. |
| int | [**getEffectiveKeyBits**](http://docs.google.com/javax/crypto/spec/RC2ParameterSpec.html#getEffectiveKeyBits())()            Returns the effective key size in bits. |
| byte[] | [**getIV**](http://docs.google.com/javax/crypto/spec/RC2ParameterSpec.html#getIV())()            Returns the IV or null if this parameter set does not contain an IV. |
| int | [**hashCode**](http://docs.google.com/javax/crypto/spec/RC2ParameterSpec.html#hashCode())()            Calculates a hash code value for the object. |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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)) |

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

### RC2ParameterSpec

public **RC2ParameterSpec**(int effectiveKeyBits)

Constructs a parameter set for RC2 from the given effective key size (in bits).

**Parameters:**effectiveKeyBits - the effective key size in bits.

### RC2ParameterSpec

public **RC2ParameterSpec**(int effectiveKeyBits,  
 byte[] iv)

Constructs a parameter set for RC2 from the given effective key size (in bits) and an 8-byte IV.

The bytes that constitute the IV are those between iv[0] and iv[7] inclusive.

**Parameters:**effectiveKeyBits - the effective key size in bits.iv - the buffer with the 8-byte IV. The first 8 bytes of the buffer are copied to protect against subsequent modification. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if iv is null.

### RC2ParameterSpec

public **RC2ParameterSpec**(int effectiveKeyBits,  
 byte[] iv,  
 int offset)

Constructs a parameter set for RC2 from the given effective key size (in bits) and IV.

The IV is taken from iv, starting at offset inclusive. The bytes that constitute the IV are those between iv[offset] and iv[offset+7] inclusive.

**Parameters:**effectiveKeyBits - the effective key size in bits.iv - the buffer with the IV. The first 8 bytes of the buffer beginning at offset inclusive are copied to protect against subsequent modification.offset - the offset in iv where the 8-byte IV starts. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if iv is null.

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

### getEffectiveKeyBits

public int **getEffectiveKeyBits**()

Returns the effective key size in bits.

**Returns:**the effective key size in bits.

### getIV

public byte[] **getIV**()

Returns the IV or null if this parameter set does not contain an IV.

**Returns:**the IV or null if this parameter set does not contain an IV. Returns a new array each time this method is called.

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Tests for equality between the specified object and this object. Two RC2ParameterSpec objects are considered equal if their effective key sizes and IVs are equal. (Two IV references are considered equal if both are null.)

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the object to test for equality with this object. **Returns:**true if the objects are considered equal, false if obj is null or otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

Calculates a hash code value for the object. Objects that are equal will also have the same hashcode.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code value for this object.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RC2ParameterSpec.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*** |
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[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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