| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RSAPrivateKeySpec.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/java/security/spec/RSAPrivateCrtKeySpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/RSAPublicKeySpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/RSAPrivateKeySpec.html)    [**NO FRAMES**](http://docs.google.com/RSAPrivateKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.security.spec**

Class RSAPrivateKeySpec

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.security.spec.RSAPrivateKeySpec**

**All Implemented Interfaces:** [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html) **Direct Known Subclasses:** [RSAMultiPrimePrivateCrtKeySpec](http://docs.google.com/java/security/spec/RSAMultiPrimePrivateCrtKeySpec.html), [RSAPrivateCrtKeySpec](http://docs.google.com/java/security/spec/RSAPrivateCrtKeySpec.html)

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

This class specifies an RSA private key.

**See Also:**[Key](http://docs.google.com/java/security/Key.html), [KeyFactory](http://docs.google.com/java/security/KeyFactory.html), [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html), [PKCS8EncodedKeySpec](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html), [RSAPublicKeySpec](http://docs.google.com/java/security/spec/RSAPublicKeySpec.html), [RSAPrivateCrtKeySpec](http://docs.google.com/java/security/spec/RSAPrivateCrtKeySpec.html)

| **Constructor Summary** | |
| --- | --- |
| [**RSAPrivateKeySpec**](http://docs.google.com/java/security/spec/RSAPrivateKeySpec.html#RSAPrivateKeySpec(java.math.BigInteger,%20java.math.BigInteger))([BigInteger](http://docs.google.com/java/math/BigInteger.html) modulus, [BigInteger](http://docs.google.com/java/math/BigInteger.html) privateExponent)            Creates a new RSAPrivateKeySpec. |

| **Method Summary** | |
| --- | --- |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getModulus**](http://docs.google.com/java/security/spec/RSAPrivateKeySpec.html#getModulus())()            Returns the modulus. |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getPrivateExponent**](http://docs.google.com/java/security/spec/RSAPrivateKeySpec.html#getPrivateExponent())()            Returns the private exponent. |

| **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)) |

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

### RSAPrivateKeySpec

public **RSAPrivateKeySpec**([BigInteger](http://docs.google.com/java/math/BigInteger.html) modulus,  
 [BigInteger](http://docs.google.com/java/math/BigInteger.html) privateExponent)

Creates a new RSAPrivateKeySpec.

**Parameters:**modulus - the modulusprivateExponent - the private exponent

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

### getModulus

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

Returns the modulus.

**Returns:**the modulus

### getPrivateExponent

public [BigInteger](http://docs.google.com/java/math/BigInteger.html) **getPrivateExponent**()

Returns the private exponent.

**Returns:**the private exponent

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RSAPrivateKeySpec.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/java/security/spec/RSAPrivateCrtKeySpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/RSAPublicKeySpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/RSAPrivateKeySpec.html)    [**NO FRAMES**](http://docs.google.com/RSAPrivateKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).