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

## **javax.crypto.spec**

Class DHPrivateKeySpec

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

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

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

This class specifies a Diffie-Hellman private key with its associated parameters.

Note that this class does not perform any validation on specified parameters. Thus, the specified values are returned directly even if they are null.

**Since:** 1.4 **See Also:**[DHPublicKeySpec](http://docs.google.com/javax/crypto/spec/DHPublicKeySpec.html)

| **Constructor Summary** | |
| --- | --- |
| [**DHPrivateKeySpec**](http://docs.google.com/javax/crypto/spec/DHPrivateKeySpec.html#DHPrivateKeySpec(java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger))([BigInteger](http://docs.google.com/java/math/BigInteger.html) x, [BigInteger](http://docs.google.com/java/math/BigInteger.html) p, [BigInteger](http://docs.google.com/java/math/BigInteger.html) g)            Constructor that takes a private value x, a prime modulus p, and a base generator g. |

| **Method Summary** | |
| --- | --- |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getG**](http://docs.google.com/javax/crypto/spec/DHPrivateKeySpec.html#getG())()            Returns the base generator g. |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getP**](http://docs.google.com/javax/crypto/spec/DHPrivateKeySpec.html#getP())()            Returns the prime modulus p. |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getX**](http://docs.google.com/javax/crypto/spec/DHPrivateKeySpec.html#getX())()            Returns the private value x. |

| **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** |
| --- |

### DHPrivateKeySpec

public **DHPrivateKeySpec**([BigInteger](http://docs.google.com/java/math/BigInteger.html) x,  
 [BigInteger](http://docs.google.com/java/math/BigInteger.html) p,  
 [BigInteger](http://docs.google.com/java/math/BigInteger.html) g)

Constructor that takes a private value x, a prime modulus p, and a base generator g.

**Parameters:**x - private value xp - prime modulus pg - base generator g

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

### getX

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

Returns the private value x.

**Returns:**the private value x

### getP

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

Returns the prime modulus p.

**Returns:**the prime modulus p

### getG

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

Returns the base generator g.

**Returns:**the base generator g

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DHPrivateKeySpec.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/DHParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/javax/crypto/spec/DHPublicKeySpec.html) | [**FRAMES**](http://docs.google.com/index.html?javax/crypto/spec/DHPrivateKeySpec.html)    [**NO FRAMES**](http://docs.google.com/DHPrivateKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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