| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DHPrivateKey.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/interfaces/DHKey.html)   [**NEXT CLASS**](http://docs.google.com/javax/crypto/interfaces/DHPublicKey.html) | [**FRAMES**](http://docs.google.com/index.html?javax/crypto/interfaces/DHPrivateKey.html)    [**NO FRAMES**](http://docs.google.com/DHPrivateKey.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#1t3h5sf) | CONSTR | [METHOD](#2s8eyo1) |

## **javax.crypto.interfaces**

Interface DHPrivateKey

**All Superinterfaces:** [DHKey](http://docs.google.com/javax/crypto/interfaces/DHKey.html), [Key](http://docs.google.com/java/security/Key.html), [PrivateKey](http://docs.google.com/java/security/PrivateKey.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

public interface **DHPrivateKey**extends [DHKey](http://docs.google.com/javax/crypto/interfaces/DHKey.html), [PrivateKey](http://docs.google.com/java/security/PrivateKey.html)

The interface to a Diffie-Hellman private key.

**Since:** 1.4 **See Also:**[DHKey](http://docs.google.com/javax/crypto/interfaces/DHKey.html), [DHPublicKey](http://docs.google.com/javax/crypto/interfaces/DHPublicKey.html)

| **Field Summary** | |
| --- | --- |
| static long | [**serialVersionUID**](http://docs.google.com/javax/crypto/interfaces/DHPrivateKey.html#serialVersionUID)            The class fingerprint that is set to indicate serialization compatibility since J2SE 1.4. |

| **Method Summary** | |
| --- | --- |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getX**](http://docs.google.com/javax/crypto/interfaces/DHPrivateKey.html#getX())()            Returns the private value, x. |

| **Methods inherited from interface javax.crypto.interfaces.**[**DHKey**](http://docs.google.com/javax/crypto/interfaces/DHKey.html) |
| --- |
| [getParams](http://docs.google.com/javax/crypto/interfaces/DHKey.html#getParams()) |

| **Methods inherited from interface java.security.**[**Key**](http://docs.google.com/java/security/Key.html) |
| --- |
| [getAlgorithm](http://docs.google.com/java/security/Key.html#getAlgorithm()), [getEncoded](http://docs.google.com/java/security/Key.html#getEncoded()), [getFormat](http://docs.google.com/java/security/Key.html#getFormat()) |

| **Field Detail** |
| --- |

### serialVersionUID

static final long **serialVersionUID**

The class fingerprint that is set to indicate serialization compatibility since J2SE 1.4.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.crypto.interfaces.DHPrivateKey.serialVersionUID)

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

### getX

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

Returns the private value, x.

**Returns:**the private value, x

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