| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DESKeySpec.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/DESedeKeySpec.html)   [**NEXT CLASS**](http://docs.google.com/javax/crypto/spec/DHGenParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?javax/crypto/spec/DESKeySpec.html)    [**NO FRAMES**](http://docs.google.com/DESKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

## **javax.crypto.spec**

Class DESKeySpec

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

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

public class **DESKeySpec**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 DES key.

**Since:** 1.4

| **Field Summary** | |
| --- | --- |
| static int | [**DES\_KEY\_LEN**](http://docs.google.com/javax/crypto/spec/DESKeySpec.html#DES_KEY_LEN)            The constant which defines the length of a DES key in bytes. |

| **Constructor Summary** | |
| --- | --- |
| [**DESKeySpec**](http://docs.google.com/javax/crypto/spec/DESKeySpec.html#DESKeySpec(byte%5B%5D))(byte[] key)            Creates a DESKeySpec object using the first 8 bytes in key as the key material for the DES key. |
| [**DESKeySpec**](http://docs.google.com/javax/crypto/spec/DESKeySpec.html#DESKeySpec(byte%5B%5D,%20int))(byte[] key, int offset)            Creates a DESKeySpec object using the first 8 bytes in key, beginning at offset inclusive, as the key material for the DES key. |

| **Method Summary** | |
| --- | --- |
| byte[] | [**getKey**](http://docs.google.com/javax/crypto/spec/DESKeySpec.html#getKey())()            Returns the DES key material. |
| static boolean | [**isParityAdjusted**](http://docs.google.com/javax/crypto/spec/DESKeySpec.html#isParityAdjusted(byte%5B%5D,%20int))(byte[] key, int offset)            Checks if the given DES key material, starting at offset inclusive, is parity-adjusted. |
| static boolean | [**isWeak**](http://docs.google.com/javax/crypto/spec/DESKeySpec.html#isWeak(byte%5B%5D,%20int))(byte[] key, int offset)            Checks if the given DES key material is weak or semi-weak. |

| **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)) |

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

### DES\_KEY\_LEN

public static final int **DES\_KEY\_LEN**

The constant which defines the length of a DES key in bytes.

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

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

### DESKeySpec

public **DESKeySpec**(byte[] key)  
 throws [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html)

Creates a DESKeySpec object using the first 8 bytes in key as the key material for the DES key.

The bytes that constitute the DES key are those between key[0] and key[7] inclusive.

**Parameters:**key - the buffer with the DES key material. The first 8 bytes of the buffer are copied to protect against subsequent modification. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the given key material is null [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html) - if the given key material is shorter than 8 bytes.

### DESKeySpec

public **DESKeySpec**(byte[] key,  
 int offset)  
 throws [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html)

Creates a DESKeySpec object using the first 8 bytes in key, beginning at offset inclusive, as the key material for the DES key.

The bytes that constitute the DES key are those between key[offset] and key[offset+7] inclusive.

**Parameters:**key - the buffer with the DES key material. The first 8 bytes of the buffer beginning at offset inclusive are copied to protect against subsequent modification.offset - the offset in key, where the DES key material starts. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the given key material is null [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html) - if the given key material, starting at offset inclusive, is shorter than 8 bytes.

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

### getKey

public byte[] **getKey**()

Returns the DES key material.

**Returns:**the DES key material. Returns a new array each time this method is called.

### isParityAdjusted

public static boolean **isParityAdjusted**(byte[] key,  
 int offset)  
 throws [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html)

Checks if the given DES key material, starting at offset inclusive, is parity-adjusted.

**Parameters:**key - the buffer with the DES key material.offset - the offset in key, where the DES key material starts. **Returns:**true if the given DES key material is parity-adjusted, false otherwise. **Throws:** [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html) - if the given key material is null, or starting at offset inclusive, is shorter than 8 bytes.

### isWeak

public static boolean **isWeak**(byte[] key,  
 int offset)  
 throws [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html)

Checks if the given DES key material is weak or semi-weak.

**Parameters:**key - the buffer with the DES key material.offset - the offset in key, where the DES key material starts. **Returns:**true if the given DES key material is weak or semi-weak, false otherwise. **Throws:** [InvalidKeyException](http://docs.google.com/java/security/InvalidKeyException.html) - if the given key material is null, or starting at offset inclusive, is shorter than 8 bytes.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DESKeySpec.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/DESedeKeySpec.html)   [**NEXT CLASS**](http://docs.google.com/javax/crypto/spec/DHGenParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?javax/crypto/spec/DESKeySpec.html)    [**NO FRAMES**](http://docs.google.com/DESKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

[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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