| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CoderResult.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/nio/charset/CoderMalfunctionError.html)   [**NEXT CLASS**](http://docs.google.com/java/nio/charset/CodingErrorAction.html) | [**FRAMES**](http://docs.google.com/index.html?java/nio/charset/CoderResult.html)    [**NO FRAMES**](http://docs.google.com/CoderResult.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#2s8eyo1) |

## **java.nio.charset**

Class CoderResult

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.nio.charset.CoderResult**

public class **CoderResult**extends [Object](http://docs.google.com/java/lang/Object.html)

A description of the result state of a coder.

A charset coder, that is, either a decoder or an encoder, consumes bytes (or characters) from an input buffer, translates them, and writes the resulting characters (or bytes) to an output buffer. A coding process terminates for one of four categories of reasons, which are described by instances of this class:

* *Underflow* is reported when there is no more input to be processed, or there is insufficient input and additional input is required. This condition is represented by the unique result object [UNDERFLOW](http://docs.google.com/java/nio/charset/CoderResult.html#UNDERFLOW), whose [isUnderflow](http://docs.google.com/java/nio/charset/CoderResult.html#isUnderflow()) method returns true.
* *Overflow* is reported when there is insufficient room remaining in the output buffer. This condition is represented by the unique result object [OVERFLOW](http://docs.google.com/java/nio/charset/CoderResult.html#OVERFLOW), whose [isOverflow](http://docs.google.com/java/nio/charset/CoderResult.html#isOverflow()) method returns true.
* A *malformed-input error* is reported when a sequence of input units is not well-formed. Such errors are described by instances of this class whose [isMalformed](http://docs.google.com/java/nio/charset/CoderResult.html#isMalformed()) method returns true and whose [length](http://docs.google.com/java/nio/charset/CoderResult.html#length()) method returns the length of the malformed sequence. There is one unique instance of this class for all malformed-input errors of a given length.
* An *unmappable-character error* is reported when a sequence of input units denotes a character that cannot be represented in the output charset. Such errors are described by instances of this class whose [isUnmappable](http://docs.google.com/java/nio/charset/CoderResult.html#isUnmappable()) method returns true and whose [length](http://docs.google.com/java/nio/charset/CoderResult.html#length()) method returns the length of the input sequence denoting the unmappable character. There is one unique instance of this class for all unmappable-character errors of a given length.

For convenience, the [isError](http://docs.google.com/java/nio/charset/CoderResult.html#isError()) method returns true for result objects that describe malformed-input and unmappable-character errors but false for those that describe underflow or overflow conditions.

**Since:** 1.4

| **Field Summary** | |
| --- | --- |
| static [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | [**OVERFLOW**](http://docs.google.com/java/nio/charset/CoderResult.html#OVERFLOW)            Result object indicating overflow, meaning that there is insufficient room in the output buffer. |
| static [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | [**UNDERFLOW**](http://docs.google.com/java/nio/charset/CoderResult.html#UNDERFLOW)            Result object indicating underflow, meaning that either the input buffer has been completely consumed or, if the input buffer is not yet empty, that additional input is required. |

| **Method Summary** | |
| --- | --- |
| boolean | [**isError**](http://docs.google.com/java/nio/charset/CoderResult.html#isError())()            Tells whether or not this object describes an error condition. |
| boolean | [**isMalformed**](http://docs.google.com/java/nio/charset/CoderResult.html#isMalformed())()            Tells whether or not this object describes a malformed-input error. |
| boolean | [**isOverflow**](http://docs.google.com/java/nio/charset/CoderResult.html#isOverflow())()            Tells whether or not this object describes an overflow condition. |
| boolean | [**isUnderflow**](http://docs.google.com/java/nio/charset/CoderResult.html#isUnderflow())()            Tells whether or not this object describes an underflow condition. |
| boolean | [**isUnmappable**](http://docs.google.com/java/nio/charset/CoderResult.html#isUnmappable())()            Tells whether or not this object describes an unmappable-character error. |
| int | [**length**](http://docs.google.com/java/nio/charset/CoderResult.html#length())()            Returns the length of the erroneous input described by this object  *(optional operation)*. |
| static [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | [**malformedForLength**](http://docs.google.com/java/nio/charset/CoderResult.html#malformedForLength(int))(int length)            Static factory method that returns the unique object describing a malformed-input error of the given length. |
| void | [**throwException**](http://docs.google.com/java/nio/charset/CoderResult.html#throwException())()            Throws an exception appropriate to the result described by this object. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/nio/charset/CoderResult.html#toString())()            Returns a string describing this coder result. |
| static [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | [**unmappableForLength**](http://docs.google.com/java/nio/charset/CoderResult.html#unmappableForLength(int))(int length)            Static factory method that returns the unique result object describing an unmappable-character error of the given length. |

| **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()), [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** |
| --- |

### UNDERFLOW

public static final [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) **UNDERFLOW**

Result object indicating underflow, meaning that either the input buffer has been completely consumed or, if the input buffer is not yet empty, that additional input is required.

### OVERFLOW

public static final [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) **OVERFLOW**

Result object indicating overflow, meaning that there is insufficient room in the output buffer.

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

### toString

public [String](http://docs.google.com/java/lang/String.html) **toString**()

Returns a string describing this coder result.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**A descriptive string

### isUnderflow

public boolean **isUnderflow**()

Tells whether or not this object describes an underflow condition.

**Returns:**true if, and only if, this object denotes underflow

### isOverflow

public boolean **isOverflow**()

Tells whether or not this object describes an overflow condition.

**Returns:**true if, and only if, this object denotes overflow

### isError

public boolean **isError**()

Tells whether or not this object describes an error condition.

**Returns:**true if, and only if, this object denotes either a malformed-input error or an unmappable-character error

### isMalformed

public boolean **isMalformed**()

Tells whether or not this object describes a malformed-input error.

**Returns:**true if, and only if, this object denotes a malformed-input error

### isUnmappable

public boolean **isUnmappable**()

Tells whether or not this object describes an unmappable-character error.

**Returns:**true if, and only if, this object denotes an unmappable-character error

### length

public int **length**()

Returns the length of the erroneous input described by this object  *(optional operation)*.

**Returns:**The length of the erroneous input, a positive integer **Throws:** [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - If this object does not describe an error condition, that is, if the [isError](http://docs.google.com/java/nio/charset/CoderResult.html#isError()) does not return true

### malformedForLength

public static [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) **malformedForLength**(int length)

Static factory method that returns the unique object describing a malformed-input error of the given length.

**Returns:**The requested coder-result object

### unmappableForLength

public static [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) **unmappableForLength**(int length)

Static factory method that returns the unique result object describing an unmappable-character error of the given length.

**Returns:**The requested coder-result object

### throwException

public void **throwException**()  
 throws [CharacterCodingException](http://docs.google.com/java/nio/charset/CharacterCodingException.html)

Throws an exception appropriate to the result described by this object.

**Throws:** [BufferUnderflowException](http://docs.google.com/java/nio/BufferUnderflowException.html) - If this object is [UNDERFLOW](http://docs.google.com/java/nio/charset/CoderResult.html#UNDERFLOW) [BufferOverflowException](http://docs.google.com/java/nio/BufferOverflowException.html) - If this object is [OVERFLOW](http://docs.google.com/java/nio/charset/CoderResult.html#OVERFLOW) [MalformedInputException](http://docs.google.com/java/nio/charset/MalformedInputException.html) - If this object represents a malformed-input error; the exception's length value will be that of this object [UnmappableCharacterException](http://docs.google.com/java/nio/charset/UnmappableCharacterException.html) - If this object represents an unmappable-character error; the exceptions length value will be that of this object [CharacterCodingException](http://docs.google.com/java/nio/charset/CharacterCodingException.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/CoderResult.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/nio/charset/CoderMalfunctionError.html)   [**NEXT CLASS**](http://docs.google.com/java/nio/charset/CodingErrorAction.html) | [**FRAMES**](http://docs.google.com/index.html?java/nio/charset/CoderResult.html)    [**NO FRAMES**](http://docs.google.com/CoderResult.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#2s8eyo1) |

[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).