| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CheckedOutputStream.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/util/zip/CheckedInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/Checksum.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/CheckedOutputStream.html)    [**NO FRAMES**](http://docs.google.com/CheckedOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

## **java.util.zip**

Class CheckedOutputStream

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.io.OutputStream](http://docs.google.com/java/io/OutputStream.html)  
 [java.io.FilterOutputStream](http://docs.google.com/java/io/FilterOutputStream.html)  
 **java.util.zip.CheckedOutputStream**

**All Implemented Interfaces:** [Closeable](http://docs.google.com/java/io/Closeable.html), [Flushable](http://docs.google.com/java/io/Flushable.html)

public class **CheckedOutputStream**extends [FilterOutputStream](http://docs.google.com/java/io/FilterOutputStream.html)

An output stream that also maintains a checksum of the data being written. The checksum can then be used to verify the integrity of the output data.

**See Also:**[Checksum](http://docs.google.com/java/util/zip/Checksum.html)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.io.**[**FilterOutputStream**](http://docs.google.com/java/io/FilterOutputStream.html) |
| --- |
| [out](http://docs.google.com/java/io/FilterOutputStream.html#out) |

| **Constructor Summary** | |
| --- | --- |
| [**CheckedOutputStream**](http://docs.google.com/java/util/zip/CheckedOutputStream.html#CheckedOutputStream(java.io.OutputStream,%20java.util.zip.Checksum))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Checksum](http://docs.google.com/java/util/zip/Checksum.html) cksum)            Creates an output stream with the specified Checksum. |

| **Method Summary** | |
| --- | --- |
| [Checksum](http://docs.google.com/java/util/zip/Checksum.html) | [**getChecksum**](http://docs.google.com/java/util/zip/CheckedOutputStream.html#getChecksum())()            Returns the Checksum for this output stream. |
| void | [**write**](http://docs.google.com/java/util/zip/CheckedOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes an array of bytes. |
| void | [**write**](http://docs.google.com/java/util/zip/CheckedOutputStream.html#write(int))(int b)            Writes a byte. |

| **Methods inherited from class java.io.**[**FilterOutputStream**](http://docs.google.com/java/io/FilterOutputStream.html) |
| --- |
| [close](http://docs.google.com/java/io/FilterOutputStream.html#close()), [flush](http://docs.google.com/java/io/FilterOutputStream.html#flush()), [write](http://docs.google.com/java/io/FilterOutputStream.html#write(byte%5B%5D)) |

| **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** |
| --- |

### CheckedOutputStream

public **CheckedOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out,  
 [Checksum](http://docs.google.com/java/util/zip/Checksum.html) cksum)

Creates an output stream with the specified Checksum.

**Parameters:**out - the output streamcksum - the checksum

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

### write

public void **write**(int b)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes a byte. Will block until the byte is actually written.

**Overrides:**[write](http://docs.google.com/java/io/FilterOutputStream.html#write(int)) in class [FilterOutputStream](http://docs.google.com/java/io/FilterOutputStream.html) **Parameters:**b - the byte to be written **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

### write

public void **write**(byte[] b,  
 int off,  
 int len)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes an array of bytes. Will block until the bytes are actually written.

**Overrides:**[write](http://docs.google.com/java/io/FilterOutputStream.html#write(byte%5B%5D,%20int,%20int)) in class [FilterOutputStream](http://docs.google.com/java/io/FilterOutputStream.html) **Parameters:**b - the data to be writtenoff - the start offset of the datalen - the number of bytes to be written **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred**See Also:**[FilterOutputStream.write(int)](http://docs.google.com/java/io/FilterOutputStream.html#write(int))

### getChecksum

public [Checksum](http://docs.google.com/java/util/zip/Checksum.html) **getChecksum**()

Returns the Checksum for this output stream.

**Returns:**the Checksum

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CheckedOutputStream.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/util/zip/CheckedInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/Checksum.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/CheckedOutputStream.html)    [**NO FRAMES**](http://docs.google.com/CheckedOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

[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).