| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ZipOutputStream.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/ZipInputStream.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/ZipOutputStream.html)    [**NO FRAMES**](http://docs.google.com/ZipOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#206ipza) | [METHOD](#2zbgiuw) |

## **java.util.zip**

Class ZipOutputStream

[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.DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html)  
 **java.util.zip.ZipOutputStream**

**All Implemented Interfaces:** [Closeable](http://docs.google.com/java/io/Closeable.html), [Flushable](http://docs.google.com/java/io/Flushable.html) **Direct Known Subclasses:** [JarOutputStream](http://docs.google.com/java/util/jar/JarOutputStream.html)

public class **ZipOutputStream**extends [DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html)

This class implements an output stream filter for writing files in the ZIP file format. Includes support for both compressed and uncompressed entries.

| **Field Summary** | |
| --- | --- |
| static int | [**CENATT**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENATT) |
| static int | [**CENATX**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENATX) |
| static int | [**CENCOM**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENCOM) |
| static int | [**CENCRC**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENCRC) |
| static int | [**CENDSK**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENDSK) |
| static int | [**CENEXT**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENEXT) |
| static int | [**CENFLG**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENFLG) |
| static int | [**CENHDR**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENHDR) |
| static int | [**CENHOW**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENHOW) |
| static int | [**CENLEN**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENLEN) |
| static int | [**CENNAM**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENNAM) |
| static int | [**CENOFF**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENOFF) |
| static long | [**CENSIG**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENSIG) |
| static int | [**CENSIZ**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENSIZ) |
| static int | [**CENTIM**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENTIM) |
| static int | [**CENVEM**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENVEM) |
| static int | [**CENVER**](http://docs.google.com/java/util/zip/ZipOutputStream.html#CENVER) |
| static int | [**DEFLATED**](http://docs.google.com/java/util/zip/ZipOutputStream.html#DEFLATED)            Compression method for compressed (DEFLATED) entries. |
| static int | [**ENDCOM**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ENDCOM) |
| static int | [**ENDHDR**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ENDHDR) |
| static int | [**ENDOFF**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ENDOFF) |
| static long | [**ENDSIG**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ENDSIG) |
| static int | [**ENDSIZ**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ENDSIZ) |
| static int | [**ENDSUB**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ENDSUB) |
| static int | [**ENDTOT**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ENDTOT) |
| static int | [**EXTCRC**](http://docs.google.com/java/util/zip/ZipOutputStream.html#EXTCRC) |
| static int | [**EXTHDR**](http://docs.google.com/java/util/zip/ZipOutputStream.html#EXTHDR) |
| static int | [**EXTLEN**](http://docs.google.com/java/util/zip/ZipOutputStream.html#EXTLEN) |
| static long | [**EXTSIG**](http://docs.google.com/java/util/zip/ZipOutputStream.html#EXTSIG) |
| static int | [**EXTSIZ**](http://docs.google.com/java/util/zip/ZipOutputStream.html#EXTSIZ) |
| static int | [**LOCCRC**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCCRC) |
| static int | [**LOCEXT**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCEXT) |
| static int | [**LOCFLG**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCFLG) |
| static int | [**LOCHDR**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCHDR) |
| static int | [**LOCHOW**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCHOW) |
| static int | [**LOCLEN**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCLEN) |
| static int | [**LOCNAM**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCNAM) |
| static long | [**LOCSIG**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCSIG) |
| static int | [**LOCSIZ**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCSIZ) |
| static int | [**LOCTIM**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCTIM) |
| static int | [**LOCVER**](http://docs.google.com/java/util/zip/ZipOutputStream.html#LOCVER) |
| static int | [**STORED**](http://docs.google.com/java/util/zip/ZipOutputStream.html#STORED)            Compression method for uncompressed (STORED) entries. |

| **Fields inherited from class java.util.zip.**[**DeflaterOutputStream**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) |
| --- |
| [buf](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#buf), [def](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#def) |

| **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** | |
| --- | --- |
| [**ZipOutputStream**](http://docs.google.com/java/util/zip/ZipOutputStream.html#ZipOutputStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Creates a new ZIP output stream. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/util/zip/ZipOutputStream.html#close())()            Closes the ZIP output stream as well as the stream being filtered. |
| void | [**closeEntry**](http://docs.google.com/java/util/zip/ZipOutputStream.html#closeEntry())()            Closes the current ZIP entry and positions the stream for writing the next entry. |
| void | [**finish**](http://docs.google.com/java/util/zip/ZipOutputStream.html#finish())()            Finishes writing the contents of the ZIP output stream without closing the underlying stream. |
| void | [**putNextEntry**](http://docs.google.com/java/util/zip/ZipOutputStream.html#putNextEntry(java.util.zip.ZipEntry))([ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) e)            Begins writing a new ZIP file entry and positions the stream to the start of the entry data. |
| void | [**setComment**](http://docs.google.com/java/util/zip/ZipOutputStream.html#setComment(java.lang.String))([String](http://docs.google.com/java/lang/String.html) comment)            Sets the ZIP file comment. |
| void | [**setLevel**](http://docs.google.com/java/util/zip/ZipOutputStream.html#setLevel(int))(int level)            Sets the compression level for subsequent entries which are DEFLATED. |
| void | [**setMethod**](http://docs.google.com/java/util/zip/ZipOutputStream.html#setMethod(int))(int method)            Sets the default compression method for subsequent entries. |
| void | [**write**](http://docs.google.com/java/util/zip/ZipOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes an array of bytes to the current ZIP entry data. |

| **Methods inherited from class java.util.zip.**[**DeflaterOutputStream**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) |
| --- |
| [deflate](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#deflate()), [write](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#write(int)) |

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

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

### STORED

public static final int **STORED**

Compression method for uncompressed (STORED) entries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.STORED)

### DEFLATED

public static final int **DEFLATED**

Compression method for compressed (DEFLATED) entries.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.DEFLATED)

### LOCSIG

public static final long **LOCSIG**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCSIG)

### EXTSIG

public static final long **EXTSIG**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.EXTSIG)

### CENSIG

public static final long **CENSIG**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENSIG)

### ENDSIG

public static final long **ENDSIG**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.ENDSIG)

### LOCHDR

public static final int **LOCHDR**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCHDR)

### EXTHDR

public static final int **EXTHDR**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.EXTHDR)

### CENHDR

public static final int **CENHDR**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENHDR)

### ENDHDR

public static final int **ENDHDR**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.ENDHDR)

### LOCVER

public static final int **LOCVER**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCVER)

### LOCFLG

public static final int **LOCFLG**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCFLG)

### LOCHOW

public static final int **LOCHOW**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCHOW)

### LOCTIM

public static final int **LOCTIM**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCTIM)

### LOCCRC

public static final int **LOCCRC**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCCRC)

### LOCSIZ

public static final int **LOCSIZ**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCSIZ)

### LOCLEN

public static final int **LOCLEN**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCLEN)

### LOCNAM

public static final int **LOCNAM**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCNAM)

### LOCEXT

public static final int **LOCEXT**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.LOCEXT)

### EXTCRC

public static final int **EXTCRC**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.EXTCRC)

### EXTSIZ

public static final int **EXTSIZ**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.EXTSIZ)

### EXTLEN

public static final int **EXTLEN**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.EXTLEN)

### CENVEM

public static final int **CENVEM**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENVEM)

### CENVER

public static final int **CENVER**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENVER)

### CENFLG

public static final int **CENFLG**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENFLG)

### CENHOW

public static final int **CENHOW**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENHOW)

### CENTIM

public static final int **CENTIM**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENTIM)

### CENCRC

public static final int **CENCRC**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENCRC)

### CENSIZ

public static final int **CENSIZ**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENSIZ)

### CENLEN

public static final int **CENLEN**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENLEN)

### CENNAM

public static final int **CENNAM**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENNAM)

### CENEXT

public static final int **CENEXT**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENEXT)

### CENCOM

public static final int **CENCOM**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENCOM)

### CENDSK

public static final int **CENDSK**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENDSK)

### CENATT

public static final int **CENATT**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENATT)

### CENATX

public static final int **CENATX**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENATX)

### CENOFF

public static final int **CENOFF**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.CENOFF)

### ENDSUB

public static final int **ENDSUB**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.ENDSUB)

### ENDTOT

public static final int **ENDTOT**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.ENDTOT)

### ENDSIZ

public static final int **ENDSIZ**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.ENDSIZ)

### ENDOFF

public static final int **ENDOFF**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.ENDOFF)

### ENDCOM

public static final int **ENDCOM**

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.zip.ZipOutputStream.ENDCOM)

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

### ZipOutputStream

public **ZipOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)

Creates a new ZIP output stream.

**Parameters:**out - the actual output stream

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

### setComment

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

Sets the ZIP file comment.

**Parameters:**comment - the comment string **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the length of the specified ZIP file comment is greater than 0xFFFF bytes

### setMethod

public void **setMethod**(int method)

Sets the default compression method for subsequent entries. This default will be used whenever the compression method is not specified for an individual ZIP file entry, and is initially set to DEFLATED.

**Parameters:**method - the default compression method **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the specified compression method is invalid

### setLevel

public void **setLevel**(int level)

Sets the compression level for subsequent entries which are DEFLATED. The default setting is DEFAULT\_COMPRESSION.

**Parameters:**level - the compression level (0-9) **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the compression level is invalid

### putNextEntry

public void **putNextEntry**([ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) e)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Begins writing a new ZIP file entry and positions the stream to the start of the entry data. Closes the current entry if still active. The default compression method will be used if no compression method was specified for the entry, and the current time will be used if the entry has no set modification time.

**Parameters:**e - the ZIP entry to be written **Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP format error has occurred [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

### closeEntry

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

Closes the current ZIP entry and positions the stream for writing the next entry.

**Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP format error has occurred [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 to the current ZIP entry data. This method will block until all the bytes are written.

**Overrides:**[write](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#write(byte%5B%5D,%20int,%20int)) in class [DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) **Parameters:**b - the data to be writtenoff - the start offset in the datalen - the number of bytes that are written **Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP file error has occurred [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))

### finish

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

Finishes writing the contents of the ZIP output stream without closing the underlying stream. Use this method when applying multiple filters in succession to the same output stream.

**Overrides:**[finish](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#finish()) in class [DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) **Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP file error has occurred [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception has occurred

### close

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

Closes the ZIP output stream as well as the stream being filtered.

**Specified by:**[close](http://docs.google.com/java/io/Closeable.html#close()) in interface [Closeable](http://docs.google.com/java/io/Closeable.html)**Overrides:**[close](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#close()) in class [DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) **Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP file error has occurred [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred**See Also:**[FilterOutputStream.flush()](http://docs.google.com/java/io/FilterOutputStream.html#flush()), [FilterOutputStream.out](http://docs.google.com/java/io/FilterOutputStream.html#out)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ZipOutputStream.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/ZipInputStream.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/ZipOutputStream.html)    [**NO FRAMES**](http://docs.google.com/ZipOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#206ipza) | [METHOD](#2zbgiuw) |

[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).