| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DeflaterOutputStream.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/DeflaterInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/GZIPInputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/DeflaterOutputStream.html)    [**NO FRAMES**](http://docs.google.com/DeflaterOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#26in1rg) | [METHOD](#44sinio) |

## **java.util.zip**

Class DeflaterOutputStream

[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**

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

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

This class implements an output stream filter for compressing data in the "deflate" compression format. It is also used as the basis for other types of compression filters, such as GZIPOutputStream.

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

| **Field Summary** | |
| --- | --- |
| protected  byte[] | [**buf**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#buf)            Output buffer for writing compressed data. |
| protected  [Deflater](http://docs.google.com/java/util/zip/Deflater.html) | [**def**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#def)            Compressor for this stream. |

| **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** | |
| --- | --- |
| [**DeflaterOutputStream**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#DeflaterOutputStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Creates a new output stream with a default compressor and buffer size. |
| [**DeflaterOutputStream**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#DeflaterOutputStream(java.io.OutputStream,%20java.util.zip.Deflater))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Deflater](http://docs.google.com/java/util/zip/Deflater.html) def)            Creates a new output stream with the specified compressor and a default buffer size. |
| [**DeflaterOutputStream**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#DeflaterOutputStream(java.io.OutputStream,%20java.util.zip.Deflater,%20int))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Deflater](http://docs.google.com/java/util/zip/Deflater.html) def, int size)            Creates a new output stream with the specified compressor and buffer size. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#close())()            Writes remaining compressed data to the output stream and closes the underlying stream. |
| protected  void | [**deflate**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#deflate())()            Writes next block of compressed data to the output stream. |
| void | [**finish**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#finish())()            Finishes writing compressed data to the output stream without closing the underlying stream. |
| void | [**write**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes an array of bytes to the compressed output stream. |
| void | [**write**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#write(int))(int b)            Writes a byte to the compressed output stream. |

| **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** |
| --- |

### def

protected [Deflater](http://docs.google.com/java/util/zip/Deflater.html) **def**

Compressor for this stream.

### buf

protected byte[] **buf**

Output buffer for writing compressed data.

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

### DeflaterOutputStream

public **DeflaterOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out,  
 [Deflater](http://docs.google.com/java/util/zip/Deflater.html) def,  
 int size)

Creates a new output stream with the specified compressor and buffer size.

**Parameters:**out - the output streamdef - the compressor ("deflater")size - the output buffer size **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if size is <= 0

### DeflaterOutputStream

public **DeflaterOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out,  
 [Deflater](http://docs.google.com/java/util/zip/Deflater.html) def)

Creates a new output stream with the specified compressor and a default buffer size.

**Parameters:**out - the output streamdef - the compressor ("deflater")

### DeflaterOutputStream

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

Creates a new output stream with a default compressor and buffer size.

**Parameters:**out - the output stream

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

### write

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

Writes a byte to the compressed output stream. This method will block until the byte can be 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 to the compressed output stream. This method will block until all the bytes are 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 length of the data **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))

### finish

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

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

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

### close

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

Writes remaining compressed data to the output stream and closes the underlying stream.

**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/io/FilterOutputStream.html#close()) in class [FilterOutputStream](http://docs.google.com/java/io/FilterOutputStream.html) **Throws:** [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)

### deflate

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

Writes next block of compressed data to the output stream.

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DeflaterOutputStream.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/DeflaterInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/GZIPInputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/DeflaterOutputStream.html)    [**NO FRAMES**](http://docs.google.com/DeflaterOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#26in1rg) | [METHOD](#44sinio) |

[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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