| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GZIPOutputStream.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/GZIPInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/Inflater.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/GZIPOutputStream.html)    [**NO FRAMES**](http://docs.google.com/GZIPOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#lnxbz9) | [METHOD](#44sinio) |

## **java.util.zip**

Class GZIPOutputStream

[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.GZIPOutputStream**

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

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

This class implements a stream filter for writing compressed data in the GZIP file format.

| **Field Summary** | |
| --- | --- |
| protected  [CRC32](http://docs.google.com/java/util/zip/CRC32.html) | [**crc**](http://docs.google.com/java/util/zip/GZIPOutputStream.html#crc)            CRC-32 of uncompressed data. |

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

| **Method Summary** | |
| --- | --- |
| void | [**finish**](http://docs.google.com/java/util/zip/GZIPOutputStream.html#finish())()            Finishes writing compressed data to the output stream without closing the underlying stream. |
| void | [**write**](http://docs.google.com/java/util/zip/GZIPOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Writes array of bytes to the compressed output stream. |

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

### crc

protected [CRC32](http://docs.google.com/java/util/zip/CRC32.html) **crc**

CRC-32 of uncompressed data.

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

### GZIPOutputStream

public **GZIPOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out,  
 int size)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a new output stream with the specified buffer size.

**Parameters:**out - the output streamsize - the output buffer size **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error has occurred. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if size is <= 0

### GZIPOutputStream

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

Creates a new output stream with a default buffer size.

**Parameters:**out - the output stream **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error has occurred.

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

### write

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

Writes 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/util/zip/DeflaterOutputStream.html#write(byte%5B%5D,%20int,%20int)) in class [DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) **Parameters:**buf - 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.

**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:** [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/GZIPOutputStream.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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[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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