| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GZIPInputStream.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/DeflaterOutputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/GZIPOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/GZIPInputStream.html)    [**NO FRAMES**](http://docs.google.com/GZIPInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#1ksv4uv) | [METHOD](#z337ya) |

## **java.util.zip**

Class GZIPInputStream

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.io.InputStream](http://docs.google.com/java/io/InputStream.html)  
 [java.io.FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html)  
 [java.util.zip.InflaterInputStream](http://docs.google.com/java/util/zip/InflaterInputStream.html)  
 **java.util.zip.GZIPInputStream**

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

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

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

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

| **Field Summary** | |
| --- | --- |
| protected  [CRC32](http://docs.google.com/java/util/zip/CRC32.html) | [**crc**](http://docs.google.com/java/util/zip/GZIPInputStream.html#crc)            CRC-32 for uncompressed data. |
| protected  boolean | [**eos**](http://docs.google.com/java/util/zip/GZIPInputStream.html#eos)            Indicates end of input stream. |
| static int | [**GZIP\_MAGIC**](http://docs.google.com/java/util/zip/GZIPInputStream.html#GZIP_MAGIC)            GZIP header magic number. |

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

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

| **Constructor Summary** | |
| --- | --- |
| [**GZIPInputStream**](http://docs.google.com/java/util/zip/GZIPInputStream.html#GZIPInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in)            Creates a new input stream with a default buffer size. |
| [**GZIPInputStream**](http://docs.google.com/java/util/zip/GZIPInputStream.html#GZIPInputStream(java.io.InputStream,%20int))([InputStream](http://docs.google.com/java/io/InputStream.html) in, int size)            Creates a new input stream with the specified buffer size. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/util/zip/GZIPInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| int | [**read**](http://docs.google.com/java/util/zip/GZIPInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Reads uncompressed data into an array of bytes. |

| **Methods inherited from class java.util.zip.**[**InflaterInputStream**](http://docs.google.com/java/util/zip/InflaterInputStream.html) |
| --- |
| [available](http://docs.google.com/java/util/zip/InflaterInputStream.html#available()), [fill](http://docs.google.com/java/util/zip/InflaterInputStream.html#fill()), [mark](http://docs.google.com/java/util/zip/InflaterInputStream.html#mark(int)), [markSupported](http://docs.google.com/java/util/zip/InflaterInputStream.html#markSupported()), [read](http://docs.google.com/java/util/zip/InflaterInputStream.html#read()), [reset](http://docs.google.com/java/util/zip/InflaterInputStream.html#reset()), [skip](http://docs.google.com/java/util/zip/InflaterInputStream.html#skip(long)) |

| **Methods inherited from class java.io.**[**FilterInputStream**](http://docs.google.com/java/io/FilterInputStream.html) |
| --- |
| [read](http://docs.google.com/java/io/FilterInputStream.html#read(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 for uncompressed data.

### eos

protected boolean **eos**

Indicates end of input stream.

### GZIP\_MAGIC

public static final int **GZIP\_MAGIC**

GZIP header magic number.

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

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

### GZIPInputStream

public **GZIPInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in,  
 int size)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a new input stream with the specified buffer size.

**Parameters:**in - the input streamsize - the input 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

### GZIPInputStream

public **GZIPInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a new input stream with a default buffer size.

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

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

### read

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

Reads uncompressed data into an array of bytes. If len is not zero, the method will block until some input can be decompressed; otherwise, no bytes are read and 0 is returned.

**Overrides:**[read](http://docs.google.com/java/util/zip/InflaterInputStream.html#read(byte%5B%5D,%20int,%20int)) in class [InflaterInputStream](http://docs.google.com/java/util/zip/InflaterInputStream.html) **Parameters:**buf - the buffer into which the data is readoff - the start offset in the destination array blen - the maximum number of bytes read **Returns:**the actual number of bytes read, or -1 if the end of the compressed input stream is reached **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If buf is null. [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - If off is negative, len is negative, or len is greater than buf.length - off [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred or the compressed input data is corrupt**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### close

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

Closes this input stream and releases any system resources associated with the 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/util/zip/InflaterInputStream.html#close()) in class [InflaterInputStream](http://docs.google.com/java/util/zip/InflaterInputStream.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GZIPInputStream.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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