| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DeflaterInputStream.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/Deflater.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/DeflaterInputStream.html)    [**NO FRAMES**](http://docs.google.com/DeflaterInputStream.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 DeflaterInputStream

[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.DeflaterInputStream**

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

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

Implements an input stream filter for compressing data in the "deflate" compression format.

**Since:** 1.6 **See Also:**[DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html), [InflaterOutputStream](http://docs.google.com/java/util/zip/InflaterOutputStream.html), [InflaterInputStream](http://docs.google.com/java/util/zip/InflaterInputStream.html)

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

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

| **Method Summary** | |
| --- | --- |
| int | [**available**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#available())()            Returns 0 after EOF has been reached, otherwise always return 1. |
| void | [**close**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#close())()            Closes this input stream and its underlying input stream, discarding any pending uncompressed data. |
| void | [**mark**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#mark(int))(int limit)  *This operation is not supported*. |
| boolean | [**markSupported**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#markSupported())()            Always returns false because this input stream does not support the [mark()](http://docs.google.com/java/util/zip/DeflaterInputStream.html#mark(int)) and [reset()](http://docs.google.com/java/util/zip/DeflaterInputStream.html#reset()) methods. |
| int | [**read**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#read())()            Reads a single byte of compressed data from the input stream. |
| int | [**read**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads compressed data into a byte array. |
| void | [**reset**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#reset())()  *This operation is not supported*. |
| long | [**skip**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#skip(long))(long n)            Skips over and discards data from the input stream. |

| **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** |
| --- |

### def

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

Compressor for this stream.

### buf

protected final byte[] **buf**

Input buffer for reading compressed data.

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

### DeflaterInputStream

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

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

**Parameters:**in - input stream to read the uncompressed data to **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if in is null

### DeflaterInputStream

public **DeflaterInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in,  
 [Deflater](http://docs.google.com/java/util/zip/Deflater.html) defl)

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

**Parameters:**in - input stream to read the uncompressed data todefl - compressor ("deflater") for this stream **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if in or defl is null

### DeflaterInputStream

public **DeflaterInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in,  
 [Deflater](http://docs.google.com/java/util/zip/Deflater.html) defl,  
 int bufLen)

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

**Parameters:**in - input stream to read the uncompressed data todefl - compressor ("deflater") for this streambufLen - compression buffer size **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if bufLen is <= 0 [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if in or defl is null

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

### close

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

Closes this input stream and its underlying input stream, discarding any pending uncompressed data.

**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/FilterInputStream.html#close()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### read

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

Reads a single byte of compressed data from the input stream. This method will block until some input can be read and compressed.

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Returns:**a single byte of compressed data, or -1 if the end of the uncompressed input stream is reached **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs or if this stream is already closed**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### read

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

Reads compressed data into a byte array. This method will block until some input can be read and compressed.

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D,%20int,%20int)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**b - buffer into which the data is readoff - starting offset of the data within blen - maximum number of compressed bytes to read into b **Returns:**the actual number of bytes read, or -1 if the end of the uncompressed input stream is reached **Throws:** [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if len > b.length - off [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs or if this input stream is already closed**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### skip

public long **skip**(long n)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Skips over and discards data from the input stream. This method may block until the specified number of bytes are read and skipped. *Note:* While n is given as a long, the maximum number of bytes which can be skipped is Integer.MAX\_VALUE.

**Overrides:**[skip](http://docs.google.com/java/io/FilterInputStream.html#skip(long)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**n - number of bytes to be skipped **Returns:**the actual number of bytes skipped **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs or if this stream is already closed

### available

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

Returns 0 after EOF has been reached, otherwise always return 1.

Programs should not count on this method to return the actual number of bytes that could be read without blocking

**Overrides:**[available](http://docs.google.com/java/io/FilterInputStream.html#available()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Returns:**zero after the end of the underlying input stream has been reached, otherwise always returns 1 **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs or if this stream is already closed

### markSupported

public boolean **markSupported**()

Always returns false because this input stream does not support the [mark()](http://docs.google.com/java/util/zip/DeflaterInputStream.html#mark(int)) and [reset()](http://docs.google.com/java/util/zip/DeflaterInputStream.html#reset()) methods.

**Overrides:**[markSupported](http://docs.google.com/java/io/FilterInputStream.html#markSupported()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Returns:**false, always**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in), [InputStream.mark(int)](http://docs.google.com/java/io/InputStream.html#mark(int)), [InputStream.reset()](http://docs.google.com/java/io/InputStream.html#reset())

### mark

public void **mark**(int limit)

*This operation is not supported*.

**Overrides:**[mark](http://docs.google.com/java/io/FilterInputStream.html#mark(int)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**limit - maximum bytes that can be read before invalidating the position marker**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in), [FilterInputStream.reset()](http://docs.google.com/java/io/FilterInputStream.html#reset())

### reset

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

*This operation is not supported*.

**Overrides:**[reset](http://docs.google.com/java/io/FilterInputStream.html#reset()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - always thrown**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in), [FilterInputStream.mark(int)](http://docs.google.com/java/io/FilterInputStream.html#mark(int))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DeflaterInputStream.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/Deflater.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/DeflaterInputStream.html)    [**NO FRAMES**](http://docs.google.com/DeflaterInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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