| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InflaterInputStream.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/Inflater.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/InflaterOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/InflaterInputStream.html)    [**NO FRAMES**](http://docs.google.com/InflaterInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#lnxbz9) | [METHOD](#2jxsxqh) |

## **java.util.zip**

Class InflaterInputStream

[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**

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

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

This class implements a stream filter for uncompressing data in the "deflate" compression format. It is also used as the basis for other decompression filters, such as GZIPInputStream.

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

| **Field Summary** | |
| --- | --- |
| protected  byte[] | [**buf**](http://docs.google.com/java/util/zip/InflaterInputStream.html#buf)            Input buffer for decompression. |
| protected  [Inflater](http://docs.google.com/java/util/zip/Inflater.html) | [**inf**](http://docs.google.com/java/util/zip/InflaterInputStream.html#inf)            Decompressor for this stream. |
| protected  int | [**len**](http://docs.google.com/java/util/zip/InflaterInputStream.html#len)            Length of input buffer. |

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

| **Method Summary** | |
| --- | --- |
| int | [**available**](http://docs.google.com/java/util/zip/InflaterInputStream.html#available())()            Returns 0 after EOF has been reached, otherwise always return 1. |
| void | [**close**](http://docs.google.com/java/util/zip/InflaterInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| protected  void | [**fill**](http://docs.google.com/java/util/zip/InflaterInputStream.html#fill())()            Fills input buffer with more data to decompress. |
| void | [**mark**](http://docs.google.com/java/util/zip/InflaterInputStream.html#mark(int))(int readlimit)            Marks the current position in this input stream. |
| boolean | [**markSupported**](http://docs.google.com/java/util/zip/InflaterInputStream.html#markSupported())()            Tests if this input stream supports the mark and reset methods. |
| int | [**read**](http://docs.google.com/java/util/zip/InflaterInputStream.html#read())()            Reads a byte of uncompressed data. |
| int | [**read**](http://docs.google.com/java/util/zip/InflaterInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads uncompressed data into an array of bytes. |
| void | [**reset**](http://docs.google.com/java/util/zip/InflaterInputStream.html#reset())()            Repositions this stream to the position at the time the mark method was last called on this input stream. |
| long | [**skip**](http://docs.google.com/java/util/zip/InflaterInputStream.html#skip(long))(long n)            Skips specified number of bytes of uncompressed data. |

| **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** |
| --- |

### inf

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

Decompressor for this stream.

### buf

protected byte[] **buf**

Input buffer for decompression.

### len

protected int **len**

Length of input buffer.

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

### InflaterInputStream

public **InflaterInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in,  
 [Inflater](http://docs.google.com/java/util/zip/Inflater.html) inf,  
 int size)

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

**Parameters:**in - the input streaminf - the decompressor ("inflater")size - the input buffer size **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if size is <= 0

### InflaterInputStream

public **InflaterInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in,  
 [Inflater](http://docs.google.com/java/util/zip/Inflater.html) inf)

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

**Parameters:**in - the input streaminf - the decompressor ("inflater")

### InflaterInputStream

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

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

**Parameters:**in - the input stream

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

### read

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

Reads a byte of uncompressed data. This method will block until enough input is available for decompression.

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Returns:**the byte read, or -1 if end of compressed input is reached **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)

### read

public int **read**(byte[] b,  
 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/io/FilterInputStream.html#read(byte%5B%5D,%20int,%20int)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**b - 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 is reached or a preset dictionary is needed **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If b is null. [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - If off is negative, len is negative, or len is greater than b.length - off [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**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### 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:**1 before EOF and 0 after EOF. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### skip

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

Skips specified number of bytes of uncompressed data.

**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 - the number of bytes to skip **Returns:**the actual number of bytes skipped. **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 n < 0

### 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/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 has occurred**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### fill

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

Fills input buffer with more data to decompress.

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

### markSupported

public boolean **markSupported**()

Tests if this input stream supports the mark and reset methods. The markSupported method of InflaterInputStream returns false.

**Overrides:**[markSupported](http://docs.google.com/java/io/FilterInputStream.html#markSupported()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Returns:**a boolean indicating if this stream type supports the mark and reset methods.**See Also:**[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 readlimit)

Marks the current position in this input stream.

The mark method of InflaterInputStream does nothing.

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

### reset

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

Repositions this stream to the position at the time the mark method was last called on this input stream.

The method reset for class InflaterInputStream does nothing except throw an IOException.

**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) - if this method is invoked.**See Also:**[InputStream.mark(int)](http://docs.google.com/java/io/InputStream.html#mark(int)), [IOException](http://docs.google.com/java/io/IOException.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InflaterInputStream.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/Inflater.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/InflaterOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/InflaterInputStream.html)    [**NO FRAMES**](http://docs.google.com/InflaterInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#lnxbz9) | [METHOD](#2jxsxqh) |

[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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