| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CheckedInputStream.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/Adler32.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/CheckedOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/CheckedInputStream.html)    [**NO FRAMES**](http://docs.google.com/CheckedInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

## **java.util.zip**

Class CheckedInputStream

[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.CheckedInputStream**

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

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

An input stream that also maintains a checksum of the data being read. The checksum can then be used to verify the integrity of the input data.

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

| **Field Summary** | |
| --- | --- |

| **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** | |
| --- | --- |
| [**CheckedInputStream**](http://docs.google.com/java/util/zip/CheckedInputStream.html#CheckedInputStream(java.io.InputStream,%20java.util.zip.Checksum))([InputStream](http://docs.google.com/java/io/InputStream.html) in, [Checksum](http://docs.google.com/java/util/zip/Checksum.html) cksum)            Creates an input stream using the specified Checksum. |

| **Method Summary** | |
| --- | --- |
| [Checksum](http://docs.google.com/java/util/zip/Checksum.html) | [**getChecksum**](http://docs.google.com/java/util/zip/CheckedInputStream.html#getChecksum())()            Returns the Checksum for this input stream. |
| int | [**read**](http://docs.google.com/java/util/zip/CheckedInputStream.html#read())()            Reads a byte. |
| int | [**read**](http://docs.google.com/java/util/zip/CheckedInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Reads into an array of bytes. |
| long | [**skip**](http://docs.google.com/java/util/zip/CheckedInputStream.html#skip(long))(long n)            Skips specified number of bytes of input. |

| **Methods inherited from class java.io.**[**FilterInputStream**](http://docs.google.com/java/io/FilterInputStream.html) |
| --- |
| [available](http://docs.google.com/java/io/FilterInputStream.html#available()), [close](http://docs.google.com/java/io/FilterInputStream.html#close()), [mark](http://docs.google.com/java/io/FilterInputStream.html#mark(int)), [markSupported](http://docs.google.com/java/io/FilterInputStream.html#markSupported()), [read](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D)), [reset](http://docs.google.com/java/io/FilterInputStream.html#reset()) |

| **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)) |

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

### CheckedInputStream

public **CheckedInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in,  
 [Checksum](http://docs.google.com/java/util/zip/Checksum.html) cksum)

Creates an input stream using the specified Checksum.

**Parameters:**in - the input streamcksum - the Checksum

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

### read

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

Reads a byte. Will block if no input is available.

**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 the end of the stream 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[] buf,  
 int off,  
 int len)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads into an array of bytes. If len is not zero, the method blocks until some input is available; 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:**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 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**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 specified number of bytes of input.

**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

### getChecksum

public [Checksum](http://docs.google.com/java/util/zip/Checksum.html) **getChecksum**()

Returns the Checksum for this input stream.

**Returns:**the Checksum value

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CheckedInputStream.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/Adler32.html)   [**NEXT CLASS**](http://docs.google.com/java/util/zip/CheckedOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/zip/CheckedInputStream.html)    [**NO FRAMES**](http://docs.google.com/CheckedInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).