| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JarInputStream.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/jar/JarFile.html)   [**NEXT CLASS**](http://docs.google.com/java/util/jar/JarOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/JarInputStream.html)    [**NO FRAMES**](http://docs.google.com/JarInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#26in1rg) | [CONSTR](#3l18frh) | [METHOD](#2zbgiuw) |

## **java.util.jar**

Class JarInputStream

[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.ZipInputStream](http://docs.google.com/java/util/zip/ZipInputStream.html)  
 **java.util.jar.JarInputStream**

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

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

The JarInputStream class is used to read the contents of a JAR file from any input stream. It extends the class java.util.zip.ZipInputStream with support for reading an optional Manifest entry. The Manifest can be used to store meta-information about the JAR file and its entries.

**Since:** 1.2 **See Also:**[Manifest](http://docs.google.com/java/util/jar/Manifest.html), [ZipInputStream](http://docs.google.com/java/util/zip/ZipInputStream.html)

| **Field Summary** | |
| --- | --- |
| static int | [**CENATT**](http://docs.google.com/java/util/jar/JarInputStream.html#CENATT) |
| static int | [**CENATX**](http://docs.google.com/java/util/jar/JarInputStream.html#CENATX) |
| static int | [**CENCOM**](http://docs.google.com/java/util/jar/JarInputStream.html#CENCOM) |
| static int | [**CENCRC**](http://docs.google.com/java/util/jar/JarInputStream.html#CENCRC) |
| static int | [**CENDSK**](http://docs.google.com/java/util/jar/JarInputStream.html#CENDSK) |
| static int | [**CENEXT**](http://docs.google.com/java/util/jar/JarInputStream.html#CENEXT) |
| static int | [**CENFLG**](http://docs.google.com/java/util/jar/JarInputStream.html#CENFLG) |
| static int | [**CENHDR**](http://docs.google.com/java/util/jar/JarInputStream.html#CENHDR) |
| static int | [**CENHOW**](http://docs.google.com/java/util/jar/JarInputStream.html#CENHOW) |
| static int | [**CENLEN**](http://docs.google.com/java/util/jar/JarInputStream.html#CENLEN) |
| static int | [**CENNAM**](http://docs.google.com/java/util/jar/JarInputStream.html#CENNAM) |
| static int | [**CENOFF**](http://docs.google.com/java/util/jar/JarInputStream.html#CENOFF) |
| static long | [**CENSIG**](http://docs.google.com/java/util/jar/JarInputStream.html#CENSIG) |
| static int | [**CENSIZ**](http://docs.google.com/java/util/jar/JarInputStream.html#CENSIZ) |
| static int | [**CENTIM**](http://docs.google.com/java/util/jar/JarInputStream.html#CENTIM) |
| static int | [**CENVEM**](http://docs.google.com/java/util/jar/JarInputStream.html#CENVEM) |
| static int | [**CENVER**](http://docs.google.com/java/util/jar/JarInputStream.html#CENVER) |
| static int | [**ENDCOM**](http://docs.google.com/java/util/jar/JarInputStream.html#ENDCOM) |
| static int | [**ENDHDR**](http://docs.google.com/java/util/jar/JarInputStream.html#ENDHDR) |
| static int | [**ENDOFF**](http://docs.google.com/java/util/jar/JarInputStream.html#ENDOFF) |
| static long | [**ENDSIG**](http://docs.google.com/java/util/jar/JarInputStream.html#ENDSIG) |
| static int | [**ENDSIZ**](http://docs.google.com/java/util/jar/JarInputStream.html#ENDSIZ) |
| static int | [**ENDSUB**](http://docs.google.com/java/util/jar/JarInputStream.html#ENDSUB) |
| static int | [**ENDTOT**](http://docs.google.com/java/util/jar/JarInputStream.html#ENDTOT) |
| static int | [**EXTCRC**](http://docs.google.com/java/util/jar/JarInputStream.html#EXTCRC) |
| static int | [**EXTHDR**](http://docs.google.com/java/util/jar/JarInputStream.html#EXTHDR) |
| static int | [**EXTLEN**](http://docs.google.com/java/util/jar/JarInputStream.html#EXTLEN) |
| static long | [**EXTSIG**](http://docs.google.com/java/util/jar/JarInputStream.html#EXTSIG) |
| static int | [**EXTSIZ**](http://docs.google.com/java/util/jar/JarInputStream.html#EXTSIZ) |
| static int | [**LOCCRC**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCCRC) |
| static int | [**LOCEXT**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCEXT) |
| static int | [**LOCFLG**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCFLG) |
| static int | [**LOCHDR**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCHDR) |
| static int | [**LOCHOW**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCHOW) |
| static int | [**LOCLEN**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCLEN) |
| static int | [**LOCNAM**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCNAM) |
| static long | [**LOCSIG**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCSIG) |
| static int | [**LOCSIZ**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCSIZ) |
| static int | [**LOCTIM**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCTIM) |
| static int | [**LOCVER**](http://docs.google.com/java/util/jar/JarInputStream.html#LOCVER) |

| **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** | |
| --- | --- |
| [**JarInputStream**](http://docs.google.com/java/util/jar/JarInputStream.html#JarInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in)            Creates a new JarInputStream and reads the optional manifest. |
| [**JarInputStream**](http://docs.google.com/java/util/jar/JarInputStream.html#JarInputStream(java.io.InputStream,%20boolean))([InputStream](http://docs.google.com/java/io/InputStream.html) in, boolean verify)            Creates a new JarInputStream and reads the optional manifest. |

| **Method Summary** | |
| --- | --- |
| protected  [ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) | [**createZipEntry**](http://docs.google.com/java/util/jar/JarInputStream.html#createZipEntry(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Creates a new JarEntry (ZipEntry) for the specified JAR file entry name. |
| [Manifest](http://docs.google.com/java/util/jar/Manifest.html) | [**getManifest**](http://docs.google.com/java/util/jar/JarInputStream.html#getManifest())()            Returns the Manifest for this JAR file, or null if none. |
| [ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) | [**getNextEntry**](http://docs.google.com/java/util/jar/JarInputStream.html#getNextEntry())()            Reads the next ZIP file entry and positions the stream at the beginning of the entry data. |
| [JarEntry](http://docs.google.com/java/util/jar/JarEntry.html) | [**getNextJarEntry**](http://docs.google.com/java/util/jar/JarInputStream.html#getNextJarEntry())()            Reads the next JAR file entry and positions the stream at the beginning of the entry data. |
| int | [**read**](http://docs.google.com/java/util/jar/JarInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads from the current JAR file entry into an array of bytes. |

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

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

| **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** |
| --- |

### LOCSIG

public static final long **LOCSIG**

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

### EXTSIG

public static final long **EXTSIG**

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

### CENSIG

public static final long **CENSIG**

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

### ENDSIG

public static final long **ENDSIG**

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

### LOCHDR

public static final int **LOCHDR**

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

### EXTHDR

public static final int **EXTHDR**

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

### CENHDR

public static final int **CENHDR**

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

### ENDHDR

public static final int **ENDHDR**

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

### LOCVER

public static final int **LOCVER**

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

### LOCFLG

public static final int **LOCFLG**

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

### LOCHOW

public static final int **LOCHOW**

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

### LOCTIM

public static final int **LOCTIM**

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

### LOCCRC

public static final int **LOCCRC**

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

### LOCSIZ

public static final int **LOCSIZ**

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

### LOCLEN

public static final int **LOCLEN**

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

### LOCNAM

public static final int **LOCNAM**

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

### LOCEXT

public static final int **LOCEXT**

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

### EXTCRC

public static final int **EXTCRC**

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

### EXTSIZ

public static final int **EXTSIZ**

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

### EXTLEN

public static final int **EXTLEN**

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

### CENVEM

public static final int **CENVEM**

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

### CENVER

public static final int **CENVER**

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

### CENFLG

public static final int **CENFLG**

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

### CENHOW

public static final int **CENHOW**

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

### CENTIM

public static final int **CENTIM**

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

### CENCRC

public static final int **CENCRC**

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

### CENSIZ

public static final int **CENSIZ**

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

### CENLEN

public static final int **CENLEN**

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

### CENNAM

public static final int **CENNAM**

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

### CENEXT

public static final int **CENEXT**

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

### CENCOM

public static final int **CENCOM**

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

### CENDSK

public static final int **CENDSK**

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

### CENATT

public static final int **CENATT**

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

### CENATX

public static final int **CENATX**

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

### CENOFF

public static final int **CENOFF**

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

### ENDSUB

public static final int **ENDSUB**

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

### ENDTOT

public static final int **ENDTOT**

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

### ENDSIZ

public static final int **ENDSIZ**

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

### ENDOFF

public static final int **ENDOFF**

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

### ENDCOM

public static final int **ENDCOM**

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

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

### JarInputStream

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

Creates a new JarInputStream and reads the optional manifest. If a manifest is present, also attempts to verify the signatures if the JarInputStream is signed.

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

### JarInputStream

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

Creates a new JarInputStream and reads the optional manifest. If a manifest is present and verify is true, also attempts to verify the signatures if the JarInputStream is signed.

**Parameters:**in - the actual input streamverify - whether or not to verify the JarInputStream if it is signed. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

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

### getManifest

public [Manifest](http://docs.google.com/java/util/jar/Manifest.html) **getManifest**()

Returns the Manifest for this JAR file, or null if none.

**Returns:**the Manifest for this JAR file, or null if none.

### getNextEntry

public [ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) **getNextEntry**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads the next ZIP file entry and positions the stream at the beginning of the entry data. If verification has been enabled, any invalid signature detected while positioning the stream for the next entry will result in an exception.

**Overrides:**[getNextEntry](http://docs.google.com/java/util/zip/ZipInputStream.html#getNextEntry()) in class [ZipInputStream](http://docs.google.com/java/util/zip/ZipInputStream.html) **Returns:**the next ZIP file entry, or null if there are no more entries **Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP file error has occurred [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if any of the jar file entries are incorrectly signed.

### getNextJarEntry

public [JarEntry](http://docs.google.com/java/util/jar/JarEntry.html) **getNextJarEntry**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads the next JAR file entry and positions the stream at the beginning of the entry data. If verification has been enabled, any invalid signature detected while positioning the stream for the next entry will result in an exception.

**Returns:**the next JAR file entry, or null if there are no more entries **Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP file error has occurred [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if any of the jar file entries are incorrectly signed.

### read

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

Reads from the current JAR file entry 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. If verification has been enabled, any invalid signature on the current entry will be reported at some point before the end of the entry is reached.

**Overrides:**[read](http://docs.google.com/java/util/zip/ZipInputStream.html#read(byte%5B%5D,%20int,%20int)) in class [ZipInputStream](http://docs.google.com/java/util/zip/ZipInputStream.html) **Parameters:**b - the buffer into which the data is readoff - the start offset in the destination array blen - the maximum number of bytes to read **Returns:**the actual number of bytes read, or -1 if the end of the entry is reached **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 file error has occurred [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if any of the jar file entries are incorrectly signed.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### createZipEntry

protected [ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) **createZipEntry**([String](http://docs.google.com/java/lang/String.html) name)

Creates a new JarEntry (ZipEntry) for the specified JAR file entry name. The manifest attributes of the specified JAR file entry name will be copied to the new JarEntry.

**Overrides:**[createZipEntry](http://docs.google.com/java/util/zip/ZipInputStream.html#createZipEntry(java.lang.String)) in class [ZipInputStream](http://docs.google.com/java/util/zip/ZipInputStream.html) **Parameters:**name - the name of the JAR/ZIP file entry **Returns:**the JarEntry object just created

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JarInputStream.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/jar/JarFile.html)   [**NEXT CLASS**](http://docs.google.com/java/util/jar/JarOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/JarInputStream.html)    [**NO FRAMES**](http://docs.google.com/JarInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#26in1rg) | [CONSTR](#3l18frh) | [METHOD](#2zbgiuw) |

[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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