| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JarOutputStream.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/JarInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/jar/Manifest.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/JarOutputStream.html)    [**NO FRAMES**](http://docs.google.com/JarOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: [FIELD](#lnxbz9) | [CONSTR](#206ipza) | [METHOD](#1egqt2p) |

## **java.util.jar**

Class JarOutputStream

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.io.OutputStream](http://docs.google.com/java/io/OutputStream.html)  
 [java.io.FilterOutputStream](http://docs.google.com/java/io/FilterOutputStream.html)  
 [java.util.zip.DeflaterOutputStream](http://docs.google.com/java/util/zip/DeflaterOutputStream.html)  
 [java.util.zip.ZipOutputStream](http://docs.google.com/java/util/zip/ZipOutputStream.html)  
 **java.util.jar.JarOutputStream**

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

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

The JarOutputStream class is used to write the contents of a JAR file to any output stream. It extends the class java.util.zip.ZipOutputStream with support for writing an optional Manifest entry. The Manifest can be used to specify meta-information about the JAR file and its entries.

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

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

| **Fields inherited from class java.util.zip.**[**ZipOutputStream**](http://docs.google.com/java/util/zip/ZipOutputStream.html) |
| --- |
| [DEFLATED](http://docs.google.com/java/util/zip/ZipOutputStream.html#DEFLATED), [STORED](http://docs.google.com/java/util/zip/ZipOutputStream.html#STORED) |

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

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

| **Constructor Summary** | |
| --- | --- |
| [**JarOutputStream**](http://docs.google.com/java/util/jar/JarOutputStream.html#JarOutputStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Creates a new JarOutputStream with no manifest. |
| [**JarOutputStream**](http://docs.google.com/java/util/jar/JarOutputStream.html#JarOutputStream(java.io.OutputStream,%20java.util.jar.Manifest))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Manifest](http://docs.google.com/java/util/jar/Manifest.html) man)            Creates a new JarOutputStream with the specified Manifest. |

| **Method Summary** | |
| --- | --- |
| void | [**putNextEntry**](http://docs.google.com/java/util/jar/JarOutputStream.html#putNextEntry(java.util.zip.ZipEntry))([ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) ze)            Begins writing a new JAR file entry and positions the stream to the start of the entry data. |

| **Methods inherited from class java.util.zip.**[**ZipOutputStream**](http://docs.google.com/java/util/zip/ZipOutputStream.html) |
| --- |
| [close](http://docs.google.com/java/util/zip/ZipOutputStream.html#close()), [closeEntry](http://docs.google.com/java/util/zip/ZipOutputStream.html#closeEntry()), [finish](http://docs.google.com/java/util/zip/ZipOutputStream.html#finish()), [setComment](http://docs.google.com/java/util/zip/ZipOutputStream.html#setComment(java.lang.String)), [setLevel](http://docs.google.com/java/util/zip/ZipOutputStream.html#setLevel(int)), [setMethod](http://docs.google.com/java/util/zip/ZipOutputStream.html#setMethod(int)), [write](http://docs.google.com/java/util/zip/ZipOutputStream.html#write(byte%5B%5D,%20int,%20int)) |

| **Methods inherited from class java.util.zip.**[**DeflaterOutputStream**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html) |
| --- |
| [deflate](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#deflate()), [write](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#write(int)) |

| **Methods inherited from class java.io.**[**FilterOutputStream**](http://docs.google.com/java/io/FilterOutputStream.html) |
| --- |
| [flush](http://docs.google.com/java/io/FilterOutputStream.html#flush()), [write](http://docs.google.com/java/io/FilterOutputStream.html#write(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.JarOutputStream.LOCSIG)

### EXTSIG

public static final long **EXTSIG**

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

### CENSIG

public static final long **CENSIG**

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

### ENDSIG

public static final long **ENDSIG**

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

### LOCHDR

public static final int **LOCHDR**

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

### EXTHDR

public static final int **EXTHDR**

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

### CENHDR

public static final int **CENHDR**

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

### ENDHDR

public static final int **ENDHDR**

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

### LOCVER

public static final int **LOCVER**

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

### LOCFLG

public static final int **LOCFLG**

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

### LOCHOW

public static final int **LOCHOW**

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

### LOCTIM

public static final int **LOCTIM**

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

### LOCCRC

public static final int **LOCCRC**

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

### LOCSIZ

public static final int **LOCSIZ**

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

### LOCLEN

public static final int **LOCLEN**

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

### LOCNAM

public static final int **LOCNAM**

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

### LOCEXT

public static final int **LOCEXT**

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

### EXTCRC

public static final int **EXTCRC**

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

### EXTSIZ

public static final int **EXTSIZ**

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

### EXTLEN

public static final int **EXTLEN**

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

### CENVEM

public static final int **CENVEM**

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

### CENVER

public static final int **CENVER**

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

### CENFLG

public static final int **CENFLG**

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

### CENHOW

public static final int **CENHOW**

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

### CENTIM

public static final int **CENTIM**

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

### CENCRC

public static final int **CENCRC**

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

### CENSIZ

public static final int **CENSIZ**

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

### CENLEN

public static final int **CENLEN**

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

### CENNAM

public static final int **CENNAM**

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

### CENEXT

public static final int **CENEXT**

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

### CENCOM

public static final int **CENCOM**

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

### CENDSK

public static final int **CENDSK**

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

### CENATT

public static final int **CENATT**

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

### CENATX

public static final int **CENATX**

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

### CENOFF

public static final int **CENOFF**

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

### ENDSUB

public static final int **ENDSUB**

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

### ENDTOT

public static final int **ENDTOT**

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

### ENDSIZ

public static final int **ENDSIZ**

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

### ENDOFF

public static final int **ENDOFF**

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

### ENDCOM

public static final int **ENDCOM**

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

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

### JarOutputStream

public **JarOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out,  
 [Manifest](http://docs.google.com/java/util/jar/Manifest.html) man)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a new JarOutputStream with the specified Manifest. The manifest is written as the first entry to the output stream.

**Parameters:**out - the actual output streamman - the optional Manifest **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

### JarOutputStream

public **JarOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a new JarOutputStream with no manifest.

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

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

### putNextEntry

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

Begins writing a new JAR file entry and positions the stream to the start of the entry data. This method will also close any previous entry. The default compression method will be used if no compression method was specified for the entry. The current time will be used if the entry has no set modification time.

**Overrides:**[putNextEntry](http://docs.google.com/java/util/zip/ZipOutputStream.html#putNextEntry(java.util.zip.ZipEntry)) in class [ZipOutputStream](http://docs.google.com/java/util/zip/ZipOutputStream.html) **Parameters:**ze - the ZIP/JAR entry to be written **Throws:** [ZipException](http://docs.google.com/java/util/zip/ZipException.html) - if a ZIP error has occurred [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JarOutputStream.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/JarInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/jar/Manifest.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/JarOutputStream.html)    [**NO FRAMES**](http://docs.google.com/JarOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: [FIELD](#lnxbz9) | [CONSTR](#206ipza) | [METHOD](#1egqt2p) |

[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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