| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Pack200.Unpacker.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/Pack200.Packer.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/Pack200.Unpacker.html)    [**NO FRAMES**](http://docs.google.com/Pack200.Unpacker.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#tyjcwt) | CONSTR | [METHOD](#3rdcrjn) |

## **java.util.jar**

Interface Pack200.Unpacker

**Enclosing class:**[Pack200](http://docs.google.com/java/util/jar/Pack200.html)

public static interface **Pack200.Unpacker**

The unpacker engine converts the packed stream to a JAR file. An instance of the engine can be obtained using [Pack200.newUnpacker()](http://docs.google.com/java/util/jar/Pack200.html#newUnpacker()).

Every JAR file produced by this engine will include the string "PACK200" as a zip file comment. This allows a deployer to detect if a JAR archive was packed and unpacked.

This version of the unpacker is compatible with all previous versions.

**Since:** 1.5

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**DEFLATE\_HINT**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#DEFLATE_HINT)            Property indicating that the unpacker should ignore all transmitted values for DEFLATE\_HINT, replacing them by the given value, [TRUE](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#TRUE) or [FALSE](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#FALSE). |
| static [String](http://docs.google.com/java/lang/String.html) | [**FALSE**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#FALSE)            The string "false", a possible value for certain properties. |
| static [String](http://docs.google.com/java/lang/String.html) | [**KEEP**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#KEEP)            The string "keep", a possible value for certain properties. |
| static [String](http://docs.google.com/java/lang/String.html) | [**PROGRESS**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#PROGRESS)            The unpacker's progress as a percentage, as periodically updated by the unpacker. |
| static [String](http://docs.google.com/java/lang/String.html) | [**TRUE**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#TRUE)            The string "true", a possible value for certain properties. |

| **Method Summary** | |
| --- | --- |
| void | [**addPropertyChangeListener**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#addPropertyChangeListener(java.beans.PropertyChangeListener))([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)            Registers a listener for PropertyChange events on the properties map. |
| [SortedMap](http://docs.google.com/java/util/SortedMap.html)<[String](http://docs.google.com/java/lang/String.html),[String](http://docs.google.com/java/lang/String.html)> | [**properties**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#properties())()            Get the set of this engine's properties. |
| void | [**removePropertyChangeListener**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#removePropertyChangeListener(java.beans.PropertyChangeListener))([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)            Remove a listener for PropertyChange events, added by the [addPropertyChangeListener(java.beans.PropertyChangeListener)](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#addPropertyChangeListener(java.beans.PropertyChangeListener)). |
| void | [**unpack**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#unpack(java.io.File,%20java.util.jar.JarOutputStream))([File](http://docs.google.com/java/io/File.html) in, [JarOutputStream](http://docs.google.com/java/util/jar/JarOutputStream.html) out)            Read a Pack200 archive, and write the encoded JAR to a JarOutputStream. |
| void | [**unpack**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#unpack(java.io.InputStream,%20java.util.jar.JarOutputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in, [JarOutputStream](http://docs.google.com/java/util/jar/JarOutputStream.html) out)            Read a Pack200 archive, and write the encoded JAR to a JarOutputStream. |

| **Field Detail** |
| --- |

### KEEP

static final [String](http://docs.google.com/java/lang/String.html) **KEEP**

The string "keep", a possible value for certain properties.

**See Also:**[DEFLATE\_HINT](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#DEFLATE_HINT), [Constant Field Values](http://docs.google.com/constant-values.html#java.util.jar.Pack200.Unpacker.KEEP)

### TRUE

static final [String](http://docs.google.com/java/lang/String.html) **TRUE**

The string "true", a possible value for certain properties.

**See Also:**[DEFLATE\_HINT](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#DEFLATE_HINT), [Constant Field Values](http://docs.google.com/constant-values.html#java.util.jar.Pack200.Unpacker.TRUE)

### FALSE

static final [String](http://docs.google.com/java/lang/String.html) **FALSE**

The string "false", a possible value for certain properties.

**See Also:**[DEFLATE\_HINT](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#DEFLATE_HINT), [Constant Field Values](http://docs.google.com/constant-values.html#java.util.jar.Pack200.Unpacker.FALSE)

### DEFLATE\_HINT

static final [String](http://docs.google.com/java/lang/String.html) **DEFLATE\_HINT**

Property indicating that the unpacker should ignore all transmitted values for DEFLATE\_HINT, replacing them by the given value, [TRUE](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#TRUE) or [FALSE](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#FALSE). The default value is the special string [KEEP](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#KEEP), which asks the unpacker to preserve all transmitted deflation hints.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.util.jar.Pack200.Unpacker.DEFLATE_HINT)

### PROGRESS

static final [String](http://docs.google.com/java/lang/String.html) **PROGRESS**

The unpacker's progress as a percentage, as periodically updated by the unpacker. Values of 0 - 100 are normal, and -1 indicates a stall. Observe this property with a [PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html).

At a minimum, the unpacker must set progress to 0 at the beginning of a packing operation, and to 100 at the end.

**See Also:**[addPropertyChangeListener(java.beans.PropertyChangeListener)](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#addPropertyChangeListener(java.beans.PropertyChangeListener)), [Constant Field Values](http://docs.google.com/constant-values.html#java.util.jar.Pack200.Unpacker.PROGRESS)

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

### properties

[SortedMap](http://docs.google.com/java/util/SortedMap.html)<[String](http://docs.google.com/java/lang/String.html),[String](http://docs.google.com/java/lang/String.html)> **properties**()

Get the set of this engine's properties. This set is a "live view", so that changing its contents immediately affects the Packer engine, and changes from the engine (such as progress indications) are immediately visible in the map.

The property map may contain pre-defined implementation specific and default properties. Users are encouraged to read the information and fully understand the implications, before modifying pre-existing properties.

Implementation specific properties are prefixed with a package name associated with the implementor, beginning with com. or a similar prefix. All property names beginning with pack. and unpack. are reserved for use by this API.

Unknown properties may be ignored or rejected with an unspecified error, and invalid entries may cause an unspecified error to be thrown.

**Returns:**A sorted association of option key strings to option values.

### unpack

void **unpack**([InputStream](http://docs.google.com/java/io/InputStream.html) in,  
 [JarOutputStream](http://docs.google.com/java/util/jar/JarOutputStream.html) out)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Read a Pack200 archive, and write the encoded JAR to a JarOutputStream. The entire contents of the input stream will be read. It may be more efficient to read the Pack200 archive to a file and pass the File object, using the alternate method described below.

Closes its input but not its output. (The output can accumulate more elements.)

**Parameters:**in - an InputStream.out - a JarOutputStream. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an error is encountered.

### unpack

void **unpack**([File](http://docs.google.com/java/io/File.html) in,  
 [JarOutputStream](http://docs.google.com/java/util/jar/JarOutputStream.html) out)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Read a Pack200 archive, and write the encoded JAR to a JarOutputStream.

Does not close its output. (The output can accumulate more elements.)

**Parameters:**in - a File.out - a JarOutputStream. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an error is encountered.

### addPropertyChangeListener

void **addPropertyChangeListener**([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)

Registers a listener for PropertyChange events on the properties map. This is typically used by applications to update a progress bar.

**Parameters:**listener - An object to be invoked when a property is changed.**See Also:**[properties()](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#properties()), [PROGRESS](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#PROGRESS)

### removePropertyChangeListener

void **removePropertyChangeListener**([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)

Remove a listener for PropertyChange events, added by the [addPropertyChangeListener(java.beans.PropertyChangeListener)](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#addPropertyChangeListener(java.beans.PropertyChangeListener)).

**Parameters:**listener - The PropertyChange listener to be removed.**See Also:**[addPropertyChangeListener(java.beans.PropertyChangeListener)](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#addPropertyChangeListener(java.beans.PropertyChangeListener))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Pack200.Unpacker.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/Pack200.Packer.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/Pack200.Unpacker.html)    [**NO FRAMES**](http://docs.google.com/Pack200.Unpacker.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#tyjcwt) | CONSTR | [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.

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