| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PipedOutputStream.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/io/PipedInputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/io/PipedReader.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/PipedOutputStream.html)    [**NO FRAMES**](http://docs.google.com/PipedOutputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#3rdcrjn) |

## **java.io**

Class PipedOutputStream

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.io.OutputStream](http://docs.google.com/java/io/OutputStream.html)  
 **java.io.PipedOutputStream**

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

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

A piped output stream can be connected to a piped input stream to create a communications pipe. The piped output stream is the sending end of the pipe. Typically, data is written to a PipedOutputStream object by one thread and data is read from the connected PipedInputStream by some other thread. Attempting to use both objects from a single thread is not recommended as it may deadlock the thread. The pipe is said to be  *broken* if a thread that was reading data bytes from the connected piped input stream is no longer alive.

**Since:** JDK1.0 **See Also:**[PipedInputStream](http://docs.google.com/java/io/PipedInputStream.html)

| **Constructor Summary** | |
| --- | --- |
| [**PipedOutputStream**](http://docs.google.com/java/io/PipedOutputStream.html#PipedOutputStream())()            Creates a piped output stream that is not yet connected to a piped input stream. |
| [**PipedOutputStream**](http://docs.google.com/java/io/PipedOutputStream.html#PipedOutputStream(java.io.PipedInputStream))([PipedInputStream](http://docs.google.com/java/io/PipedInputStream.html) snk)            Creates a piped output stream connected to the specified piped input stream. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/io/PipedOutputStream.html#close())()            Closes this piped output stream and releases any system resources associated with this stream. |
| void | [**connect**](http://docs.google.com/java/io/PipedOutputStream.html#connect(java.io.PipedInputStream))([PipedInputStream](http://docs.google.com/java/io/PipedInputStream.html) snk)            Connects this piped output stream to a receiver. |
| void | [**flush**](http://docs.google.com/java/io/PipedOutputStream.html#flush())()            Flushes this output stream and forces any buffered output bytes to be written out. |
| void | [**write**](http://docs.google.com/java/io/PipedOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this piped output stream. |
| void | [**write**](http://docs.google.com/java/io/PipedOutputStream.html#write(int))(int b)            Writes the specified byte to the piped output stream. |

| **Methods inherited from class java.io.**[**OutputStream**](http://docs.google.com/java/io/OutputStream.html) |
| --- |
| [write](http://docs.google.com/java/io/OutputStream.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)) |

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

### PipedOutputStream

public **PipedOutputStream**([PipedInputStream](http://docs.google.com/java/io/PipedInputStream.html) snk)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a piped output stream connected to the specified piped input stream. Data bytes written to this stream will then be available as input from snk.

**Parameters:**snk - The piped input stream to connect to. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### PipedOutputStream

public **PipedOutputStream**()

Creates a piped output stream that is not yet connected to a piped input stream. It must be connected to a piped input stream, either by the receiver or the sender, before being used.

**See Also:**[PipedInputStream.connect(java.io.PipedOutputStream)](http://docs.google.com/java/io/PipedInputStream.html#connect(java.io.PipedOutputStream)), [connect(java.io.PipedInputStream)](http://docs.google.com/java/io/PipedOutputStream.html#connect(java.io.PipedInputStream))

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

### connect

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

Connects this piped output stream to a receiver. If this object is already connected to some other piped input stream, an IOException is thrown.

If snk is an unconnected piped input stream and src is an unconnected piped output stream, they may be connected by either the call:

src.connect(snk)

or the call:

snk.connect(src)

The two calls have the same effect.

**Parameters:**snk - the piped input stream to connect to. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### write

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

Writes the specified byte to the piped output stream.

Implements the write method of OutputStream.

**Specified by:**[write](http://docs.google.com/java/io/OutputStream.html#write(int)) in class [OutputStream](http://docs.google.com/java/io/OutputStream.html) **Parameters:**b - the byte to be written. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the pipe is  [broken](#3znysh7), [unconnected](http://docs.google.com/java/io/PipedOutputStream.html#connect(java.io.PipedInputStream)), closed, or if an I/O error occurs.

### write

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

Writes len bytes from the specified byte array starting at offset off to this piped output stream. This method blocks until all the bytes are written to the output stream.

**Overrides:**[write](http://docs.google.com/java/io/OutputStream.html#write(byte%5B%5D,%20int,%20int)) in class [OutputStream](http://docs.google.com/java/io/OutputStream.html) **Parameters:**b - the data.off - the start offset in the data.len - the number of bytes to write. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the pipe is  [broken](#3znysh7), [unconnected](http://docs.google.com/java/io/PipedOutputStream.html#connect(java.io.PipedInputStream)), closed, or if an I/O error occurs.

### flush

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

Flushes this output stream and forces any buffered output bytes to be written out. This will notify any readers that bytes are waiting in the pipe.

**Specified by:**[flush](http://docs.google.com/java/io/Flushable.html#flush()) in interface [Flushable](http://docs.google.com/java/io/Flushable.html)**Overrides:**[flush](http://docs.google.com/java/io/OutputStream.html#flush()) in class [OutputStream](http://docs.google.com/java/io/OutputStream.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### close

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

Closes this piped output stream and releases any system resources associated with this stream. This stream may no longer be used for writing bytes.

**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/OutputStream.html#close()) in class [OutputStream](http://docs.google.com/java/io/OutputStream.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PipedOutputStream.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*** |
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[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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