

JAVA.IO.PIPEDINPUTSTREAM CLASS

http://www.tutorialspoint.com/java/io/java_ipipedinputstream.htm

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Introduction

The **Java.io.PipedInputStream** class is a piped input stream that can be connected to a piped output stream, the piped input stream then provides whatever data bytes are written to the piped output stream. Following are the important points about PipedInputStream:

- The piped input stream contains a buffer, decoupling read operations from write operations, within limits.
- Attempting to use both objects from a single thread is not recommended, as it may deadlock the thread.
- A pipe is said to be broken if a thread that was providing data bytes to the connected piped output stream is no longer alive.

Class declaration

Following is the declaration for **Java.io.PipedInputStream** class:

```
public class PipedInputStream  
    extends InputStream
```

Field

Following are the fields for **Java.io.PipedInputStream** class:

- **protected byte[] buffer** -- This is the circular buffer into which incoming data is placed.
- **protected int in** -- This is the index of the position in the circular buffer at which the next byte of data will be stored when received from the connected piped output stream.
- **protected int out** -- This is the index of the position in the circular buffer at which the next byte of data will be read by this piped input stream.
- **protected static int PIPE_SIZE** -- This is the default size of the pipe's circular input buffer.

Class constructors

S.N. Constructor & Description

1

PipedInputStream

This creates a PipedInputStream so that it is not yet connected.

2

PipedInputStream(int pipeSize)

This creates a PipedInputStream so that it is not yet connected and uses the specified pipe size for the pipe's buffer.

3

PipedInputStream(PipedOutputStream src)

This creates a PipedInputStream so that it is connected to the piped output stream *src*.

4

PipedInputStream*PipedOutputStream src, int pipeSize*

This creates a PipedInputStream so that it is connected to the piped output stream *src* and uses the specified pipe size for the pipe's buffer.

Class methods

S.N. Method & Description

1

[int available](#)

This method returns the number of bytes that can be read from this input stream without blocking.

2

[void close](#)

This method closes this piped input stream and releases any system resources associated with the stream.

3

[void connect](#)*PipedOutputStream src*

This method causes this piped input stream to be connected to the piped output stream *src*.

4

[int read](#)

This method reads the next byte of data from this piped input stream.

5

[int read](#)*byte[] b, int off, int len*

This method reads up to *len* bytes of data from this piped input stream into an array of bytes.

6

[protected void receive](#)*int b*

This method receives a byte of data.

Methods inherited

This class inherits methods from the following classes:

- [Java.io.InputStream](#)
- [Java.io.Object](#)