| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ProgressMonitorInputStream.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/javax/swing/ProgressMonitor.AccessibleProgressMonitor.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/Renderer.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/ProgressMonitorInputStream.html)    [**NO FRAMES**](http://docs.google.com/ProgressMonitorInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

## **javax.swing**

Class ProgressMonitorInputStream

[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)  
 **javax.swing.ProgressMonitorInputStream**

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

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

Monitors the progress of reading from some InputStream. This ProgressMonitor is normally invoked in roughly this form:

InputStream in = new BufferedInputStream(  
 new ProgressMonitorInputStream(  
 parentComponent,  
 "Reading " + fileName,  
 new FileInputStream(fileName)));

This creates a progress monitor to monitor the progress of reading the input stream. If it's taking a while, a ProgressDialog will be popped up to inform the user. If the user hits the Cancel button an InterruptedIOException will be thrown on the next read. All the right cleanup is done when the stream is closed.

For further documentation and examples see [How to Monitor Progress](http://java.sun.com/docs/books/tutorial/uiswing/components/progress.html), a section in *The Java Tutorial.*

**See Also:**[ProgressMonitor](http://docs.google.com/javax/swing/ProgressMonitor.html), [JOptionPane](http://docs.google.com/javax/swing/JOptionPane.html)

| **Field Summary** | |
| --- | --- |

| **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** | |
| --- | --- |
| [**ProgressMonitorInputStream**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#ProgressMonitorInputStream(java.awt.Component,%20java.lang.Object,%20java.io.InputStream))([Component](http://docs.google.com/java/awt/Component.html) parentComponent, [Object](http://docs.google.com/java/lang/Object.html) message, [InputStream](http://docs.google.com/java/io/InputStream.html) in)            Constructs an object to monitor the progress of an input stream. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#close())()            Overrides FilterInputStream.close to close the progress monitor as well as the stream. |
| [ProgressMonitor](http://docs.google.com/javax/swing/ProgressMonitor.html) | [**getProgressMonitor**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#getProgressMonitor())()            Get the ProgressMonitor object being used by this stream. |
| int | [**read**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#read())()            Overrides FilterInputStream.read to update the progress monitor after the read. |
| int | [**read**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#read(byte%5B%5D))(byte[] b)            Overrides FilterInputStream.read to update the progress monitor after the read. |
| int | [**read**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Overrides FilterInputStream.read to update the progress monitor after the read. |
| void | [**reset**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#reset())()            Overrides FilterInputStream.reset to reset the progress monitor as well as the stream. |
| long | [**skip**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#skip(long))(long n)            Overrides FilterInputStream.skip to update the progress monitor after the skip. |

| **Methods inherited from class java.io.**[**FilterInputStream**](http://docs.google.com/java/io/FilterInputStream.html) |
| --- |
| [available](http://docs.google.com/java/io/FilterInputStream.html#available()), [mark](http://docs.google.com/java/io/FilterInputStream.html#mark(int)), [markSupported](http://docs.google.com/java/io/FilterInputStream.html#markSupported()) |

| **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** |
| --- |

### ProgressMonitorInputStream

public **ProgressMonitorInputStream**([Component](http://docs.google.com/java/awt/Component.html) parentComponent,  
 [Object](http://docs.google.com/java/lang/Object.html) message,  
 [InputStream](http://docs.google.com/java/io/InputStream.html) in)

Constructs an object to monitor the progress of an input stream.

**Parameters:**message - Descriptive text to be placed in the dialog box if one is popped up.parentComponent - The component triggering the operation being monitored.in - The input stream to be monitored.

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

### getProgressMonitor

public [ProgressMonitor](http://docs.google.com/javax/swing/ProgressMonitor.html) **getProgressMonitor**()

Get the ProgressMonitor object being used by this stream. Normally this isn't needed unless you want to do something like change the descriptive text partway through reading the file.

**Returns:**the ProgressMonitor object used by this object

### read

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

Overrides FilterInputStream.read to update the progress monitor after the read.

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Returns:**the next byte of data, or -1 if the end of the stream is reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### read

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

Overrides FilterInputStream.read to update the progress monitor after the read.

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**b - the buffer into which the data is read. **Returns:**the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.**See Also:**[FilterInputStream.read(byte[], int, int)](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D,%20int,%20int))

### read

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

Overrides FilterInputStream.read to update the progress monitor after the read.

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D,%20int,%20int)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**b - the buffer into which the data is read.off - the start offset in the destination array blen - the maximum number of bytes read. **Returns:**the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### skip

public long **skip**(long n)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Overrides FilterInputStream.skip to update the progress monitor after the skip.

**Overrides:**[skip](http://docs.google.com/java/io/FilterInputStream.html#skip(long)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**n - the number of bytes to be skipped. **Returns:**the actual number of bytes skipped. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the stream does not support seek, or if some other I/O error occurs.

### close

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

Overrides FilterInputStream.close to close the progress monitor as well as the stream.

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

### reset

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

Overrides FilterInputStream.reset to reset the progress monitor as well as the stream.

**Overrides:**[reset](http://docs.google.com/java/io/FilterInputStream.html#reset()) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the stream has not been marked or if the mark has been invalidated.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in), [FilterInputStream.mark(int)](http://docs.google.com/java/io/FilterInputStream.html#mark(int))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ProgressMonitorInputStream.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/javax/swing/ProgressMonitor.AccessibleProgressMonitor.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/Renderer.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/ProgressMonitorInputStream.html)    [**NO FRAMES**](http://docs.google.com/ProgressMonitorInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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