| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InterruptibleChannel.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/nio/channels/IllegalSelectorException.html)   [**NEXT CLASS**](http://docs.google.com/java/nio/channels/NoConnectionPendingException.html) | [**FRAMES**](http://docs.google.com/index.html?java/nio/channels/InterruptibleChannel.html)    [**NO FRAMES**](http://docs.google.com/InterruptibleChannel.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

## **java.nio.channels**

Interface InterruptibleChannel

**All Superinterfaces:** [Channel](http://docs.google.com/java/nio/channels/Channel.html), [Closeable](http://docs.google.com/java/io/Closeable.html) **All Known Implementing Classes:** [AbstractInterruptibleChannel](http://docs.google.com/java/nio/channels/spi/AbstractInterruptibleChannel.html), [AbstractSelectableChannel](http://docs.google.com/java/nio/channels/spi/AbstractSelectableChannel.html), [DatagramChannel](http://docs.google.com/java/nio/channels/DatagramChannel.html), [FileChannel](http://docs.google.com/java/nio/channels/FileChannel.html), [Pipe.SinkChannel](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html), [Pipe.SourceChannel](http://docs.google.com/java/nio/channels/Pipe.SourceChannel.html), [SelectableChannel](http://docs.google.com/java/nio/channels/SelectableChannel.html), [ServerSocketChannel](http://docs.google.com/java/nio/channels/ServerSocketChannel.html), [SocketChannel](http://docs.google.com/java/nio/channels/SocketChannel.html)

public interface **InterruptibleChannel**extends [Channel](http://docs.google.com/java/nio/channels/Channel.html)

A channel that can be asynchronously closed and interrupted.

A channel that implements this interface is *asynchronously closeable:* If a thread is blocked in an I/O operation on an interruptible channel then another thread may invoke the channel's [close](http://docs.google.com/java/nio/channels/InterruptibleChannel.html#close()) method. This will cause the blocked thread to receive an [AsynchronousCloseException](http://docs.google.com/java/nio/channels/AsynchronousCloseException.html).

A channel that implements this interface is also *interruptible:* If a thread is blocked in an I/O operation on an interruptible channel then another thread may invoke the blocked thread's [interrupt](http://docs.google.com/java/lang/Thread.html#interrupt()) method. This will cause the channel to be closed, the blocked thread to receive a [ClosedByInterruptException](http://docs.google.com/java/nio/channels/ClosedByInterruptException.html), and the blocked thread's interrupt status to be set.

If a thread's interrupt status is already set and it invokes a blocking I/O operation upon a channel then the channel will be closed and the thread will immediately receive a [ClosedByInterruptException](http://docs.google.com/java/nio/channels/ClosedByInterruptException.html); its interrupt status will remain set.

A channel supports asynchronous closing and interruption if, and only if, it implements this interface. This can be tested at runtime, if necessary, via the instanceof operator.

**Since:** 1.4

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/nio/channels/InterruptibleChannel.html#close())()            Closes this channel. |

| **Methods inherited from interface java.nio.channels.**[**Channel**](http://docs.google.com/java/nio/channels/Channel.html) |
| --- |
| [isOpen](http://docs.google.com/java/nio/channels/Channel.html#isOpen()) |

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

### close

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

Closes this channel.

Any thread currently blocked in an I/O operation upon this channel will receive an [AsynchronousCloseException](http://docs.google.com/java/nio/channels/AsynchronousCloseException.html).

This method otherwise behaves exactly as specified by the [Channel](http://docs.google.com/java/nio/channels/Channel.html#close()) interface.

**Specified by:**[close](http://docs.google.com/java/nio/channels/Channel.html#close()) in interface [Channel](http://docs.google.com/java/nio/channels/Channel.html)**Specified by:**[close](http://docs.google.com/java/io/Closeable.html#close()) in interface [Closeable](http://docs.google.com/java/io/Closeable.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/InterruptibleChannel.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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| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

[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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