| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/io/FileDescriptor.html) | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/io//class-useFileDescriptor.html)    [**NO FRAMES**](http://docs.google.com/FileDescriptor.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.io.FileDescriptor**

| Packages that use [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | |
| --- | --- |
| [**java.io**](#3znysh7) | Provides for system input and output through data streams, serialization and the file system. |
| [**java.lang**](#2et92p0) | Provides classes that are fundamental to the design of the Java programming language. |
| [**java.net**](#tyjcwt) | Provides the classes for implementing networking applications. |

| Uses of [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) in [java.io](http://docs.google.com/java/io/package-summary.html) | |
| --- | --- |

| Fields in [java.io](http://docs.google.com/java/io/package-summary.html) declared as [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | |
| --- | --- |
| static [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **FileDescriptor.**[**err**](http://docs.google.com/java/io/FileDescriptor.html#err)            A handle to the standard error stream. |
| static [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **FileDescriptor.**[**in**](http://docs.google.com/java/io/FileDescriptor.html#in)            A handle to the standard input stream. |
| static [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **FileDescriptor.**[**out**](http://docs.google.com/java/io/FileDescriptor.html#out)            A handle to the standard output stream. |

| Methods in [java.io](http://docs.google.com/java/io/package-summary.html) that return [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | |
| --- | --- |
| [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **RandomAccessFile.**[**getFD**](http://docs.google.com/java/io/RandomAccessFile.html#getFD())()            Returns the opaque file descriptor object associated with this stream. |
| [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **FileOutputStream.**[**getFD**](http://docs.google.com/java/io/FileOutputStream.html#getFD())()            Returns the file descriptor associated with this stream. |
| [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **FileInputStream.**[**getFD**](http://docs.google.com/java/io/FileInputStream.html#getFD())()            Returns the FileDescriptor object that represents the connection to the actual file in the file system being used by this FileInputStream. |

| Constructors in [java.io](http://docs.google.com/java/io/package-summary.html) with parameters of type [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | |
| --- | --- |
| [**FileInputStream**](http://docs.google.com/java/io/FileInputStream.html#FileInputStream(java.io.FileDescriptor))([FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) fdObj)            Creates a FileInputStream by using the file descriptor fdObj, which represents an existing connection to an actual file in the file system. |
| [**FileOutputStream**](http://docs.google.com/java/io/FileOutputStream.html#FileOutputStream(java.io.FileDescriptor))([FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) fdObj)            Creates an output file stream to write to the specified file descriptor, which represents an existing connection to an actual file in the file system. |
| [**FileReader**](http://docs.google.com/java/io/FileReader.html#FileReader(java.io.FileDescriptor))([FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) fd)            Creates a new FileReader, given the FileDescriptor to read from. |
| [**FileWriter**](http://docs.google.com/java/io/FileWriter.html#FileWriter(java.io.FileDescriptor))([FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) fd)            Constructs a FileWriter object associated with a file descriptor. |

| Uses of [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) in [java.lang](http://docs.google.com/java/lang/package-summary.html) | |
| --- | --- |

| Methods in [java.lang](http://docs.google.com/java/lang/package-summary.html) with parameters of type [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | |
| --- | --- |
| void | **SecurityManager.**[**checkRead**](http://docs.google.com/java/lang/SecurityManager.html#checkRead(java.io.FileDescriptor))([FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) fd)            Throws a SecurityException if the calling thread is not allowed to read from the specified file descriptor. |
| void | **SecurityManager.**[**checkWrite**](http://docs.google.com/java/lang/SecurityManager.html#checkWrite(java.io.FileDescriptor))([FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) fd)            Throws a SecurityException if the calling thread is not allowed to write to the specified file descriptor. |

| Uses of [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) in [java.net](http://docs.google.com/java/net/package-summary.html) | |
| --- | --- |

| Fields in [java.net](http://docs.google.com/java/net/package-summary.html) declared as [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | |
| --- | --- |
| protected  [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **SocketImpl.**[**fd**](http://docs.google.com/java/net/SocketImpl.html#fd)            The file descriptor object for this socket. |
| protected  [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **DatagramSocketImpl.**[**fd**](http://docs.google.com/java/net/DatagramSocketImpl.html#fd)            The file descriptor object. |

| Methods in [java.net](http://docs.google.com/java/net/package-summary.html) that return [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | |
| --- | --- |
| protected  [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **SocketImpl.**[**getFileDescriptor**](http://docs.google.com/java/net/SocketImpl.html#getFileDescriptor())()            Returns the value of this socket's fd field. |
| protected  [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **DatagramSocketImpl.**[**getFileDescriptor**](http://docs.google.com/java/net/DatagramSocketImpl.html#getFileDescriptor())()            Gets the datagram socket file descriptor. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/io/FileDescriptor.html) | **Use** | [**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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