| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/util/concurrent/locks/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Package**

**java.util.concurrent.locks**

| Packages that use [java.util.concurrent.locks](http://docs.google.com/java/util/concurrent/locks/package-summary.html) | |
| --- | --- |
| [**java.util.concurrent.locks**](#3znysh7) | Interfaces and classes providing a framework for locking and waiting for conditions that is distinct from built-in synchronization and monitors. |

| Classes in [java.util.concurrent.locks](http://docs.google.com/java/util/concurrent/locks/package-summary.html) used by [java.util.concurrent.locks](http://docs.google.com/java/util/concurrent/locks/package-summary.html) | |
| --- | --- |
| [**AbstractOwnableSynchronizer**](http://docs.google.com/java/util/concurrent/locks/class-use/AbstractOwnableSynchronizer.html#java.util.concurrent.locks)            A synchronizer that may be exclusively owned by a thread. |
| [**AbstractQueuedLongSynchronizer.ConditionObject**](http://docs.google.com/java/util/concurrent/locks/class-use/AbstractQueuedLongSynchronizer.ConditionObject.html#java.util.concurrent.locks)            Condition implementation for a [AbstractQueuedLongSynchronizer](http://docs.google.com/java/util/concurrent/locks/AbstractQueuedLongSynchronizer.html) serving as the basis of a [Lock](http://docs.google.com/java/util/concurrent/locks/Lock.html) implementation. |
| [**AbstractQueuedSynchronizer.ConditionObject**](http://docs.google.com/java/util/concurrent/locks/class-use/AbstractQueuedSynchronizer.ConditionObject.html#java.util.concurrent.locks)            Condition implementation for a [AbstractQueuedSynchronizer](http://docs.google.com/java/util/concurrent/locks/AbstractQueuedSynchronizer.html) serving as the basis of a [Lock](http://docs.google.com/java/util/concurrent/locks/Lock.html) implementation. |
| [**Condition**](http://docs.google.com/java/util/concurrent/locks/class-use/Condition.html#java.util.concurrent.locks)            Condition factors out the Object monitor methods ([wait](http://docs.google.com/java/lang/Object.html#wait()), [notify](http://docs.google.com/java/lang/Object.html#notify()) and [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll())) into distinct objects to give the effect of having multiple wait-sets per object, by combining them with the use of arbitrary [Lock](http://docs.google.com/java/util/concurrent/locks/Lock.html) implementations. |
| [**Lock**](http://docs.google.com/java/util/concurrent/locks/class-use/Lock.html#java.util.concurrent.locks)            Lock implementations provide more extensive locking operations than can be obtained using synchronized methods and statements. |
| [**ReadWriteLock**](http://docs.google.com/java/util/concurrent/locks/class-use/ReadWriteLock.html#java.util.concurrent.locks)            A ReadWriteLock maintains a pair of associated [locks](http://docs.google.com/java/util/concurrent/locks/Lock.html), one for read-only operations and one for writing. |
| [**ReentrantReadWriteLock**](http://docs.google.com/java/util/concurrent/locks/class-use/ReentrantReadWriteLock.html#java.util.concurrent.locks)            An implementation of [ReadWriteLock](http://docs.google.com/java/util/concurrent/locks/ReadWriteLock.html) supporting similar semantics to [ReentrantLock](http://docs.google.com/java/util/concurrent/locks/ReentrantLock.html). |
| [**ReentrantReadWriteLock.ReadLock**](http://docs.google.com/java/util/concurrent/locks/class-use/ReentrantReadWriteLock.ReadLock.html#java.util.concurrent.locks)            The lock returned by method [ReentrantReadWriteLock.readLock()](http://docs.google.com/java/util/concurrent/locks/ReentrantReadWriteLock.html#readLock()). |
| [**ReentrantReadWriteLock.WriteLock**](http://docs.google.com/java/util/concurrent/locks/class-use/ReentrantReadWriteLock.WriteLock.html#java.util.concurrent.locks)            The lock returned by method [ReentrantReadWriteLock.writeLock()](http://docs.google.com/java/util/concurrent/locks/ReentrantReadWriteLock.html#writeLock()). |

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