

edu.mit.csail.aeolus.api

Class AeolusLock

java.lang.Object

```
└─ edu.mit.csail.aeolus.api.AeolusShared
    └─ edu.mit.csail.aeolus.api.AeolusLock
```

All Implemented Interfaces:

AeolusSafe

```
public final class AeolusLock extends AeolusShared
```

Implementation of a shared lock.

Field Summary

Fields inherited from class edu.mit.csail.aeolus.api.AeolusShared

sharedLastEid

Constructor Summary

AeolusLock()

Construct an AeolusLock with the current thread's labels.

AeolusLock(AeolusLabel sLabel, AeolusLabel iLabel)

Construct an AeolusLock with the specified labels.

Method Summary

void	lock() Blocks until the lock is acquired.
boolean	tryLock() Acquires the lock if it is not currently held and returns true, otherwise returns false.
void	unlock() Releases the lock

Methods inherited from class edu.mit.csail.aeolus.api.AeolusShared

getIntegrityLabel, getSecrecyLabel

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

AeolusLock

```
public AeolusLock()
```

Construct an AeolusLock with the current thread's labels.

AeolusLock

```
public AeolusLock(AeolusLabel sLabel,  
                  AeolusLabel iLabel)  
    throws InfoFlowControlException
```

Construct an AeolusLock with the specified labels.

Throws:

`InfoFlowControlException` - if thread's labels are more constrained than given labels

Method Detail

lock

```
public void lock()  
    throws InfoFlowControlException
```

Blocks until the lock is acquired.

Throws:

`InfoFlowControlException` - if the thread can't write the lock

tryLock

```
public boolean tryLock()  
    throws InfoFlowControlException
```

Acquires the lock if it is not currently held and returns true, otherwise returns false.

Returns:

true if lock acquired, else false

Throws:

`InfoFlowControlException` - if the thread can't read and write the lock

unlock

```
public void unlock()  
    throws InfoFlowControlException
```

Releases the lock

Throws:

`InfoFlowControlException` - if the thread can't write the lock

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