edu.mit.csail.aeolus.api

Class AeolusBox<T extends java.io.Serializable>

```
java.lang.Object
  └ edu.mit.csail.aeolus.api.AeolusShared
      └ edu.mit.csail.aeolus.api.AeolusBox<T>
```

Type Parameters:
T -

All Implemented Interfaces:
AeolusSafe

```
public final class AeolusBox<T extends java.io.Serializable>extends AeolusShared
```

This class is used to create share-able objects in Aeolus. These objects will propagate changes between threads in Aeolus. Trying to serialize these objects will cause an exception, leave serialization of these objects to the Aeolus runtime.

Field Summary

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

Constructor Summary

AeolusBox(AeolusLabel objSLabel, AeolusLabel objILabel, T o) Construct an AeolusBox with the specified labels and a copy of o for the contents.
AeolusBox(T o) Construct an AeolusBox with the current thread's labels and a copy of o for the contents.

Method Summary

T	**get**() The get method returns a copy of the object in the AeolusBox
void	**put**(T o) The put method puts a copy of the argument object into the AeolusBox

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

AeolusBox

```
public AeolusBox(AeolusLabel objSLabel,
                 AeolusLabel objILabel,
                 T o)
          throws InfoFlowControlException
```

Construct an AeolusBox with the specified labels and a copy of o for the contents.

Throws:

InfoFlowControlException - - if thread's labels are more constraining than those provided.

AeolusBox

```
public AeolusBox(T o)
```

Construct an AeolusBox with the current thread's labels and a copy of o for the contents.

Method Detail

get

```
public T get()
                                    throws InfoFlowControlException
```

The get method returns a copy of the object in the AeolusBox

Throws:

`InfoFlowControlException` - - if thread's labels don't allow the read

---

put

```
public void put(T o)
         throws InfoFlowControlException
```

The put method puts a copy of the argument object into the AeolusBox

Throws:

`InfoFlowControlException` - - if thread's labels don't allow the write