	Source		Pattern	
#	Original	Modified	Original	Modified
1	<pre>LeafQueue leafQueue =; -synchronized (leafQueue) {    57 LOC }</pre>	<pre>LeafQueue leafQueue =; +try { + leafQueue.getReadLock().lock();     57 LOC +} finally { + leafQueue.getReadLock().unlock(); }</pre>	<pre>synchronized (obj) {  }</pre>	<pre>try {   lock.lock();  } finally {   lock.unlock(); }</pre>
2	<pre>-Lock readlock =     classLoaderContainerMapLock.readLock(); -try {     readlock.lock();     result = classLoaderContainerMap.get(tccl); -} finally {     readlock.unlock(); -} -if (result == null) {     Lock writelock =         classLoaderContainerMapLock.writeLock();     try {         writeLock.lock();         result = classLoaderContainerMap.get(tccl);         if (result == null) {             result = new ServerContainerImpl();             classLoaderContainerMap.put(tccl,result);         }     } finally {         writeLock.unlock();     } }</pre>	<pre>result = classLoaderContainerMap.get(tccl); if (result == null) {   result = new ServerContainerImpl();   classLoaderContainerMap.put(tccl,result); }</pre>	<pre>try {   readLock.lock();   read operations } finally {   readLock.unlock(); } try {   writeLock.lock();   write operations } finally { writeLock.unlock(); }</pre>	<pre>synchronized {   all operations }</pre>
3	<pre>private static final Object lock = new    Object(); private Map&lt;&gt; count = new HashMap&lt;&gt;(); -synchronized (count) {     Pair<job, string=""> key =         new ImmutablePair&lt;&gt;(jobID, name);  - if (count.containsKey(key)) {     count.put(key, count.get(key) + 1);     } else {     count.put(key, 1);     } }</job,></pre>	<pre>private static final Object lock = new    Object(); private Map&lt;&gt; count = new HashMap&lt;&gt;(); +synchronized(lock) + if (!jobCounts.containsKey(jobID)) {         jobCounts.put(jobID, new HashMap&lt;&gt;()); + } + Map<string, integer=""> count =         jobCounts.get(jobID); + if (count.containsKey(name)) {         count.put(name, count.get(name) + 1);         } else {         count.put(name, 1);       } }</string,></pre>	<pre>synchronized (obj1) {  }</pre>	<pre>synchronized (obj2) {  }</pre>
5	<pre>-public boolean isAccessed() {   return this.accessed; }</pre>	<pre>+public synchronized boolean isAccessed() {    return this.accessed; }</pre>	<pre>void foo() {  }</pre>	<pre>synchronized void foo() {  }</pre>
6	<pre>-synchronized (this.channelLookup) { - try{     lookupResponse = AkkaUtils.     <jobmanagermessages.connectioninformation>ask(channelLookup, new     JobManagerMessages.LookupConnectionInformation(connectionInfo, jobID, sourceChannelID),     timeout).response(); - }catch(IOException ioe) { - throw ioe; - } -}</jobmanagermessages.connectioninformation></pre>	<pre>lookupResponse = AkkaUtils. <jobmanagermessages.connectioninformation>ask( channelLookup, new JobManagerMessages.LookupConnectionInformation ( connectionInfo, jobID, sourceChannelID), timeout).response();</jobmanagermessages.connectioninformation></pre>	<pre>synchronized (obj) {  }</pre>	•••
8	<pre>synchronized (buffers) {    if () {      if (spillWriter != null) {         spillWriter.close();      }      isFinished = true;    } }</pre>	<pre>synchronized (buffers) {   if () {     isFinished = true;   } } +if (spillWriter != null) { + spillWriter.close(); +}</pre>	<pre>synchronized (obj) {   statements1   statements2 }</pre>	<pre>synchronized (obj) {   statements2 } statements1</pre>
4	<pre>-public synchronized void reset() {    map.clear();    members = EMPTY_MEMBERS; }</pre>	<pre>+private final Object membersLock = new + Object(); +public void reset() { + synchronized (membersLock) {     map.clear();     members = EMPTY_MEMBERS; + } }</pre>	<pre>synchronized void foo() {  }</pre>	<pre>void foo() {    synchronized (obj) {     } }</pre>