щ	Source Code		Simplified Code	
#	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 { obj.lock(); } finally { obj.unlock(); }</pre>
2	<pre>-Lock readlock = classLoaderContainerMapLock.readLock(); try { readlock.lock(); result = classLoaderContainerMap.get(tccl); finally { readlock.unlock(); } if (result == null) { Lock writelock =</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<> count = new HashMap<>(); -synchronized (count) { Pair<job, string=""> key = new ImmutablePair<>(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<> count = new HashMap<>(); +synchronized(lock) + if (!jobCounts.containsKey(jobID)) { + jobCounts.put(jobID, new HashMap<>()); + } + 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>
4	<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>
5	<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>	
6	<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>
7	<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>