**SUMMARY**

A concurrency bug in Batik 1.8.

**DETAILS**

Some details can also be found at: <https://bz.apache.org/bugzilla/show_bug.cgi?id=44178>

This bug is due to a data race.

getReferenceQueue method is not thread safe due to a race condition. The test for "if (queue

== null)" needs to be inside the synchronized block, not outside of it.

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| Thread1 (CleanerThread.java) | Thread2 (CleanerThread.java) |
| public static ReferenceQueue getReferenceQueue() {  if ( queue == null ) {  synchronized (CleanerThread.class) {  queue = new ReferenceQueue();  thread = new CleanerThread();  }  }  return queue;  } | public static ReferenceQueue getReferenceQueue() {  if ( queue == null ) {  synchronized (CleanerThread.class) {  queue = new ReferenceQueue();  thread = new CleanerThread();  }  }  return queue;  } |
| 0-lock | 1-lock |