**SUMMARY**

A concurrency bug in Tomcat 6-6.0.29

**DETAILS**

Some details can also be found at: <https://bz.apache.org/bugzilla/show_bug.cgi?id=49986>

This bug is due to a data race.

Common anti-pattern: Double checked locking.

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| Thread1 (JspServletWrapper.java) | Thread2 (JspServletWrapper.java) |
| public Servlet getServlet()throws ServletException, IOException, FileNotFoundException  {  if (reload) {  synchronized (this) {  //Synchronizing on jsw enables simultaneous loading  // of different pages, but not the same page.  if (reload) {  // This is to maintain the original protocol.    ..........  theServlet = servlet;  reload = false;  }  }  }  return theServlet;  } | public Servlet getServlet()throws ServletException, IOException, FileNotFoundException  {  if (reload) {  synchronized (this) {  //Synchronizing on jsw enables simultaneous loading  // of different pages, but not the same page.  if (reload) {  // This is to maintain the original protocol.    ..........  theServlet = servlet;  reload = false;  }  }  }  return theServlet;  } |
| 0-lock | 1-lock |