**Test Server**:

OS: Windows 7

CPU: Core i5-2400 @ 3.1G

RAM: 16G

Server: Tomcat 7.0.41 (with default settings)

**Params**:

(Threads/Ramp-Up(s)/Loop)

**Test Cases**:

**/simpleServlet** (200/2s/100)







**/blockServlet** (200/2s/100)



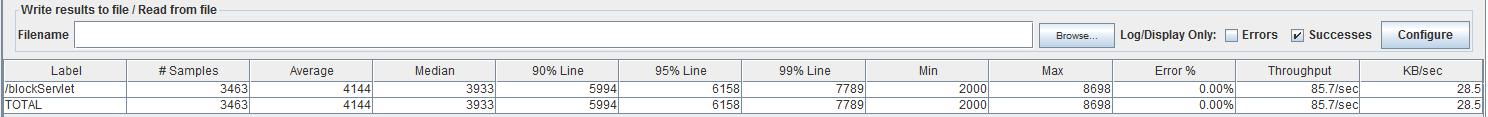
/blockServlet (300/2s/100)



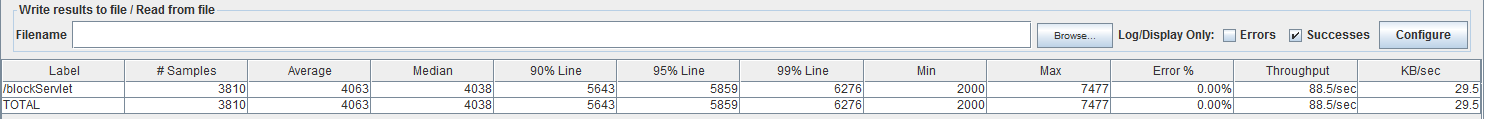
/blockServlet (2000/4s/10)



/blockServlet (2000/4s/10), only success



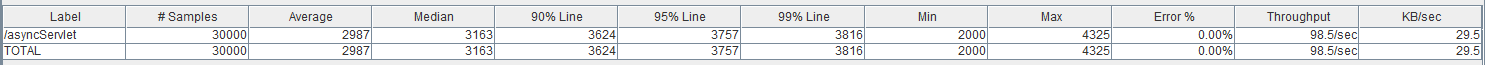
/blockServlet (2000/10s/10), only success



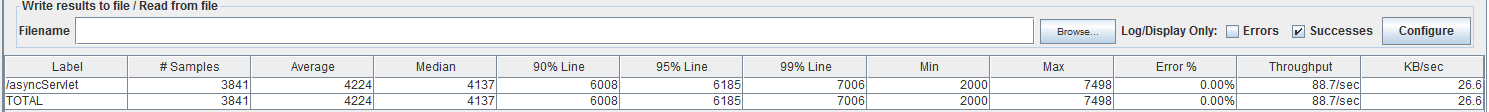
**/asyncServlet** (200/2s/100)



/asyncServlet (300/2s/100)



/asyncServlet (2000/10s/10), only success



**Result**:

On Tomcat 7.0.41(with default settings), move the ‘sleep(2)’ [to demo some heavy task] from Servlet to Thread Pool, can’t help the performance and throughput.

**Tune Tomcat to use NIO connector**

<Connector port="80" protocol="org.apache.coyote.http11.Http11NioProtocol"

connectionTimeout="20000"

redirectPort="443" />

**/blockServlet** (2000/10s/10)



**Result**:

* With NIO connector, there is progress in throughput. And it can serve all requests now, without ‘connection refused’ errors when using BIO connector.
* Default connection count is 200, so it have almost utilized all capacity (99.4/s).
* After tuning other parameters, the performance can be improved a lot.