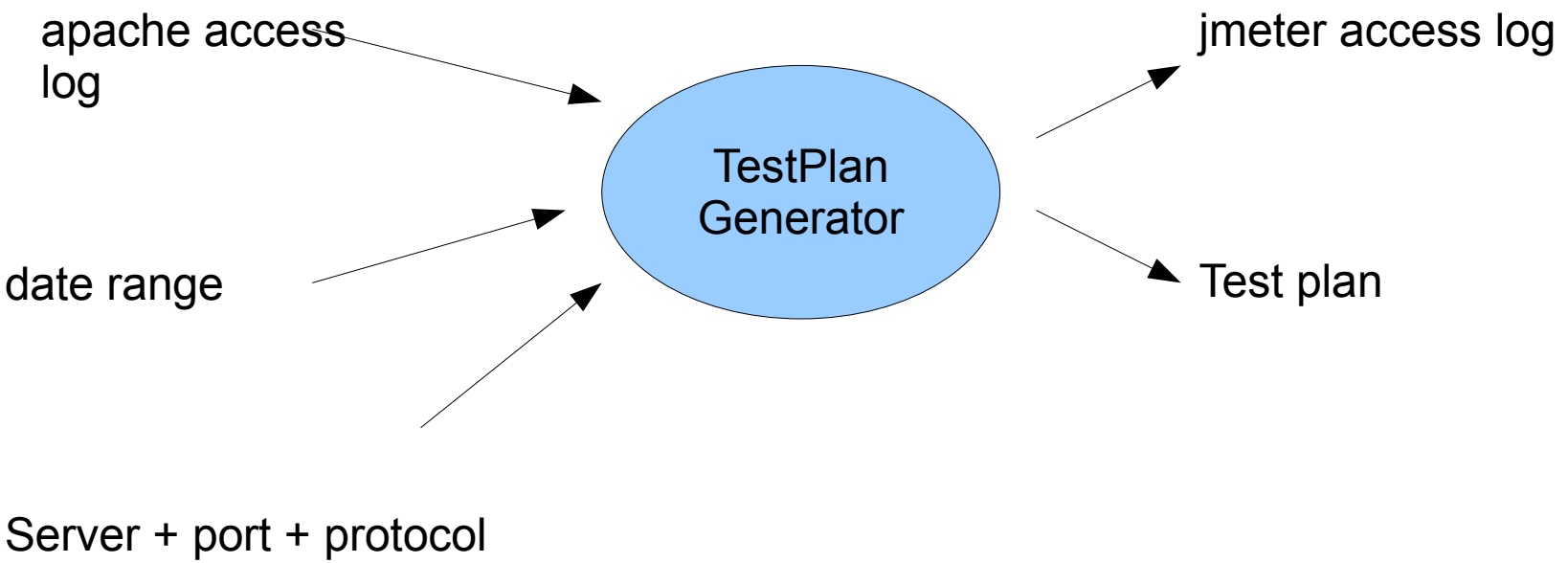
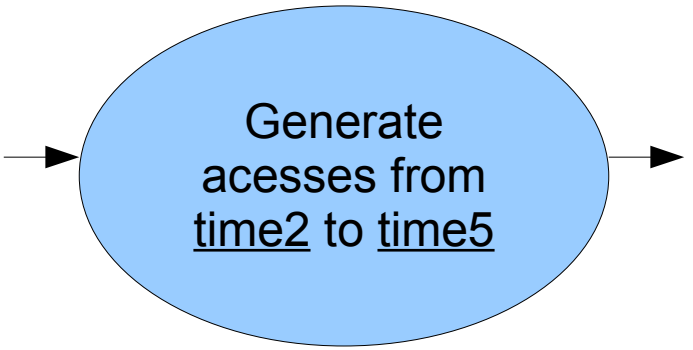
General view



Generated jmeter access log

Apache
access log

IP1	time1	....
IP1	time1	....
IP2	time1	....
IP3	time2	....
IP3	time3	....
IP3	time4	....
IP1	time3	....
IP2	time4	....
IP2	time5	....
IP4	time6	....
IP4	time9	....



Jmeter
access log

0	IP3	time2	....
1	IP3	time3	…
2	IP3	time4	…
3	IP1	time3	...
4	IP2	time4	....
5	IP2	time5	...

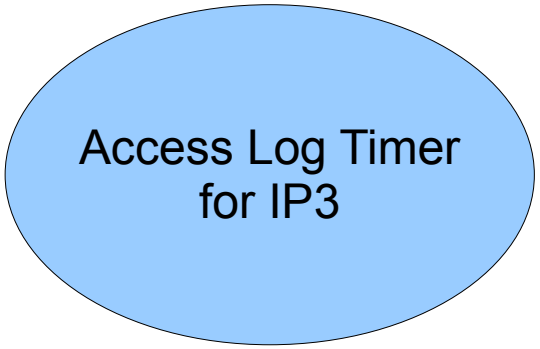
Thread group IP3
(offset 0)

Thread group IP1
(offset 3)

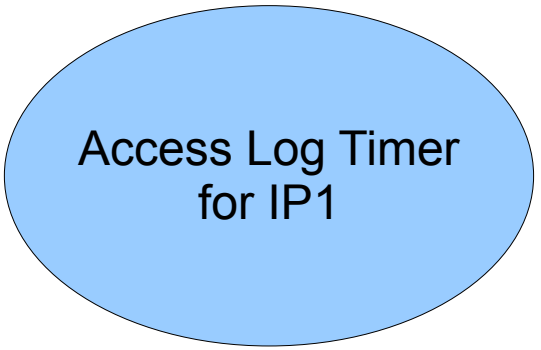
Thread group IP2
(offset 4)

Acces Log Timer

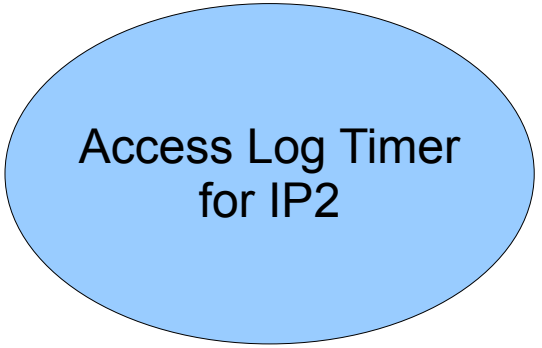
Accesses from time(2) to time(5)



Thread group start up delay = 2 – 2 = 0
Sample IP3 time(2).... → delay = 0
Sample IP3 time(3) … → delay = 1
Sample IP3 time(4) … → delay = 1



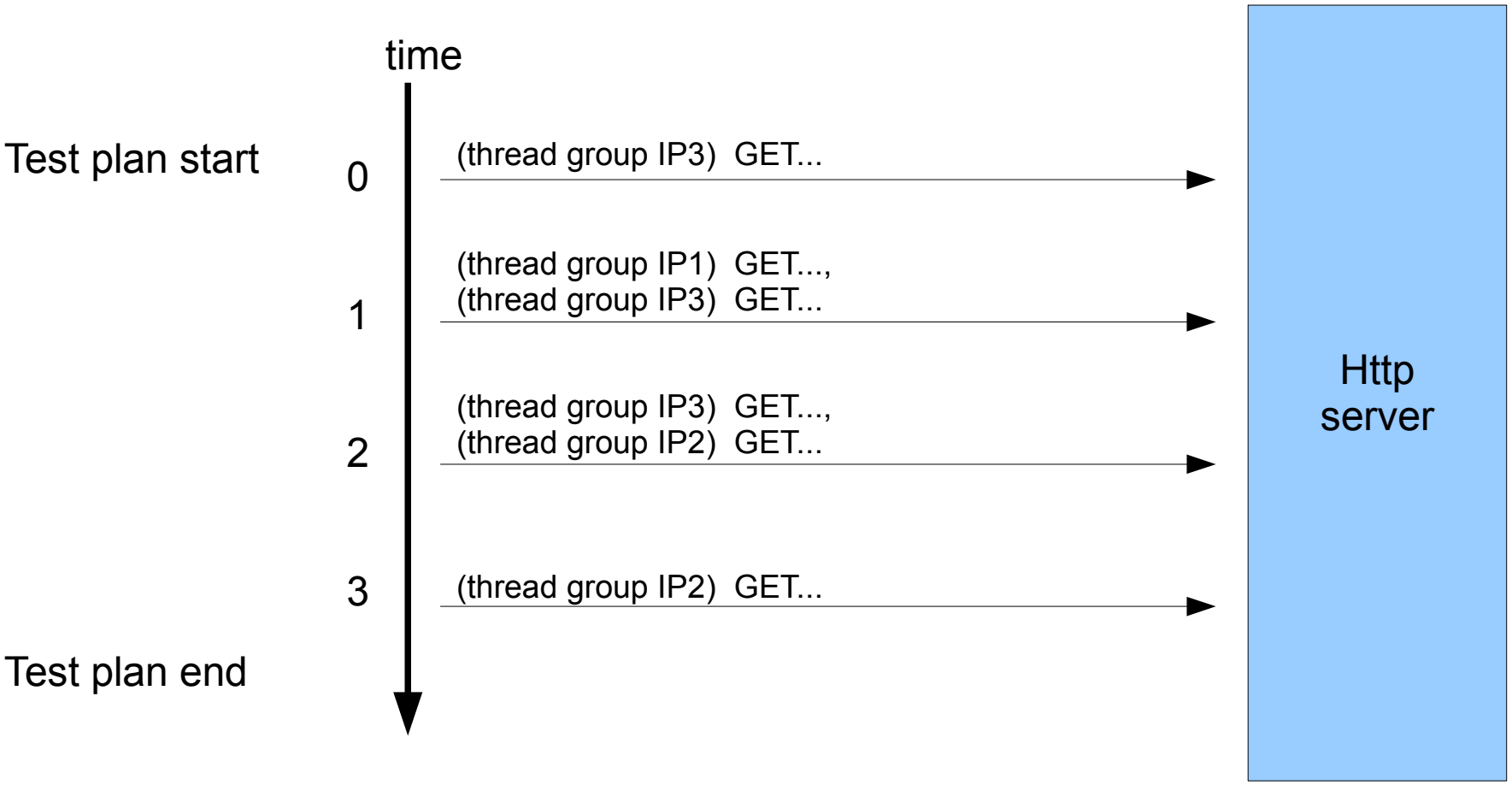
Thread group start up delay = 3 – 2 = 1
Sample IP1 time(3) … → delay = 0



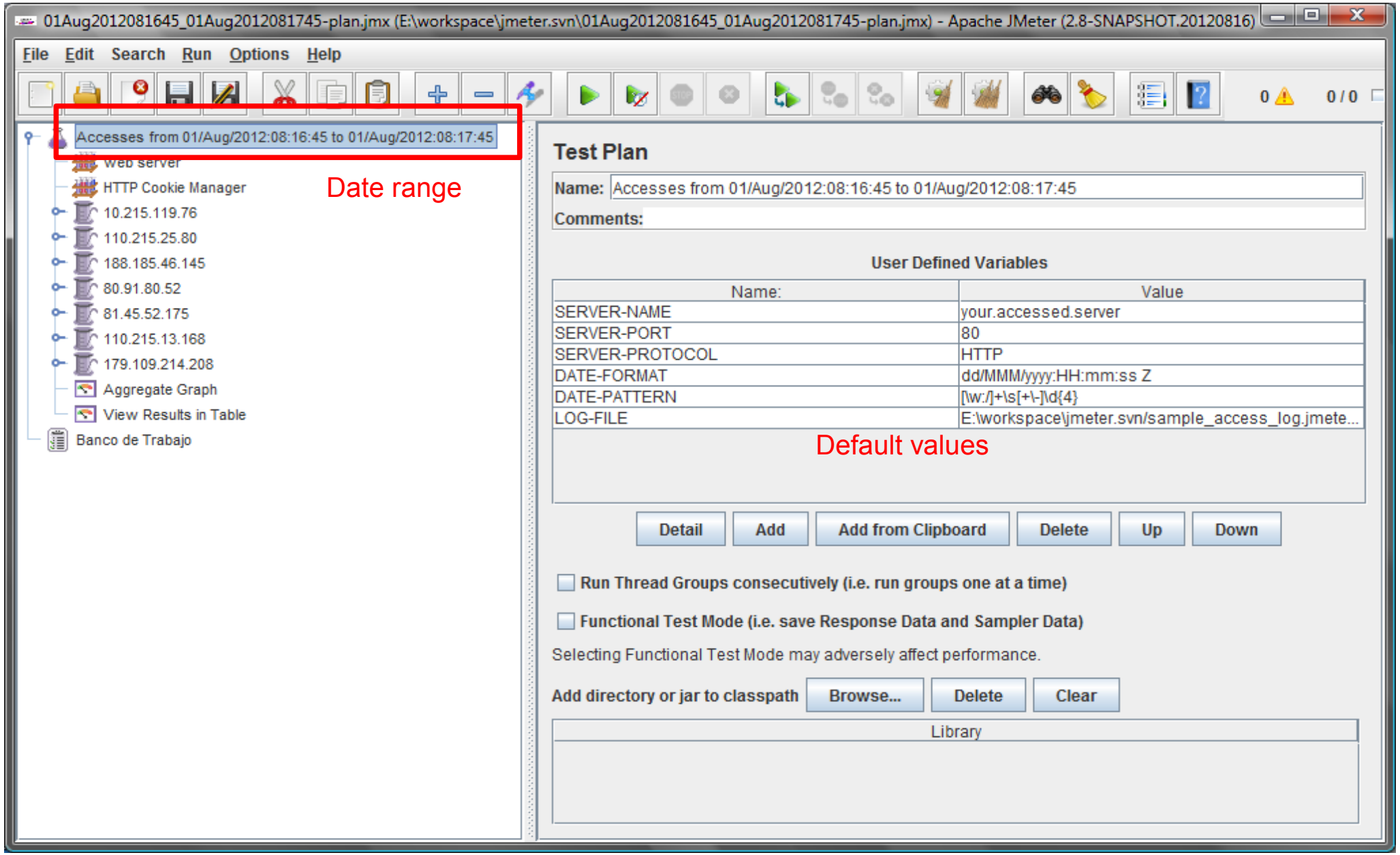
Thread group start up delay = 4 – 2 = 2
Sample IP2 time(4) .... → delay = 0
Sample IP2 time(5) … → delay = 1

Timing

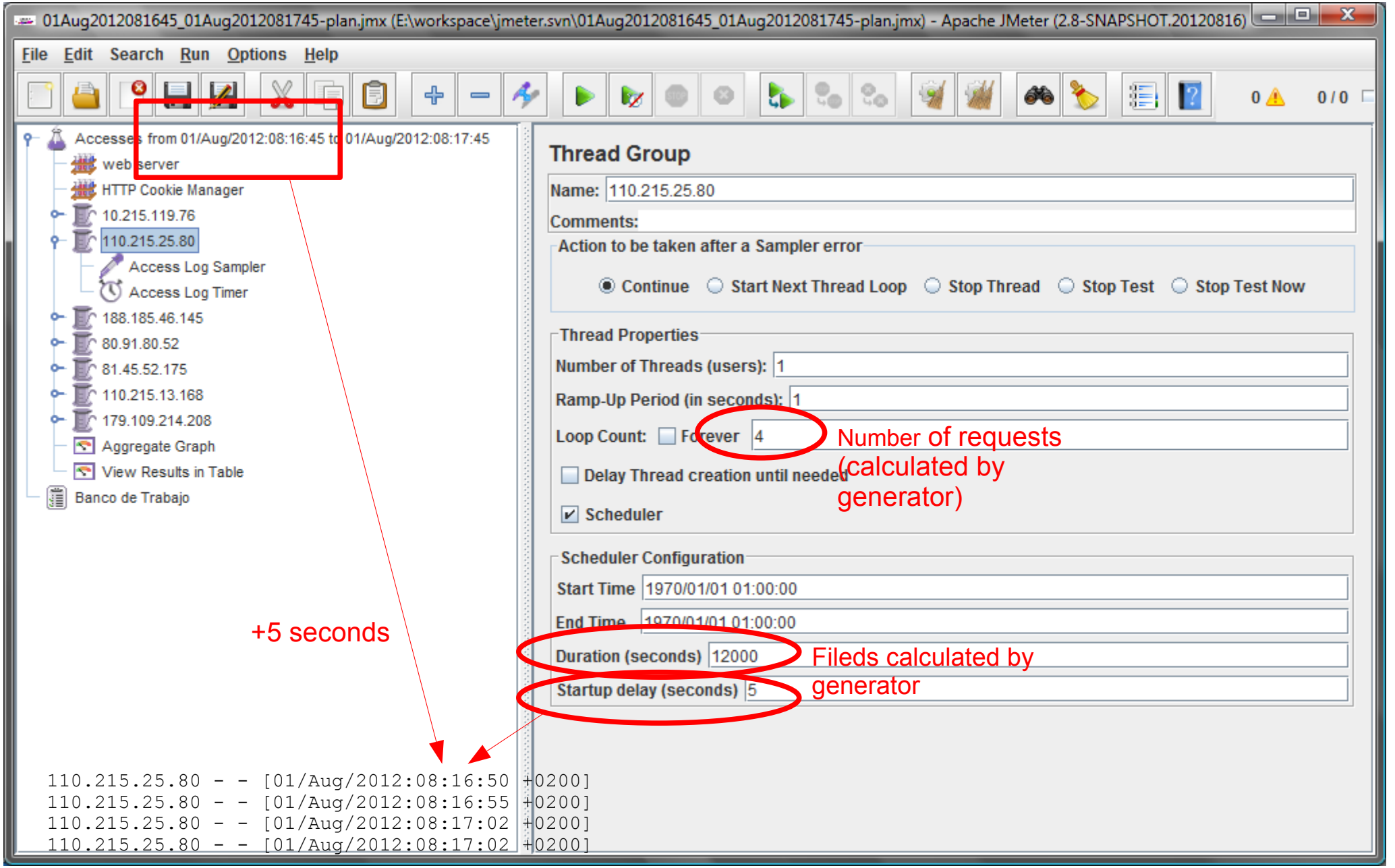
Accesses from time2 to time5



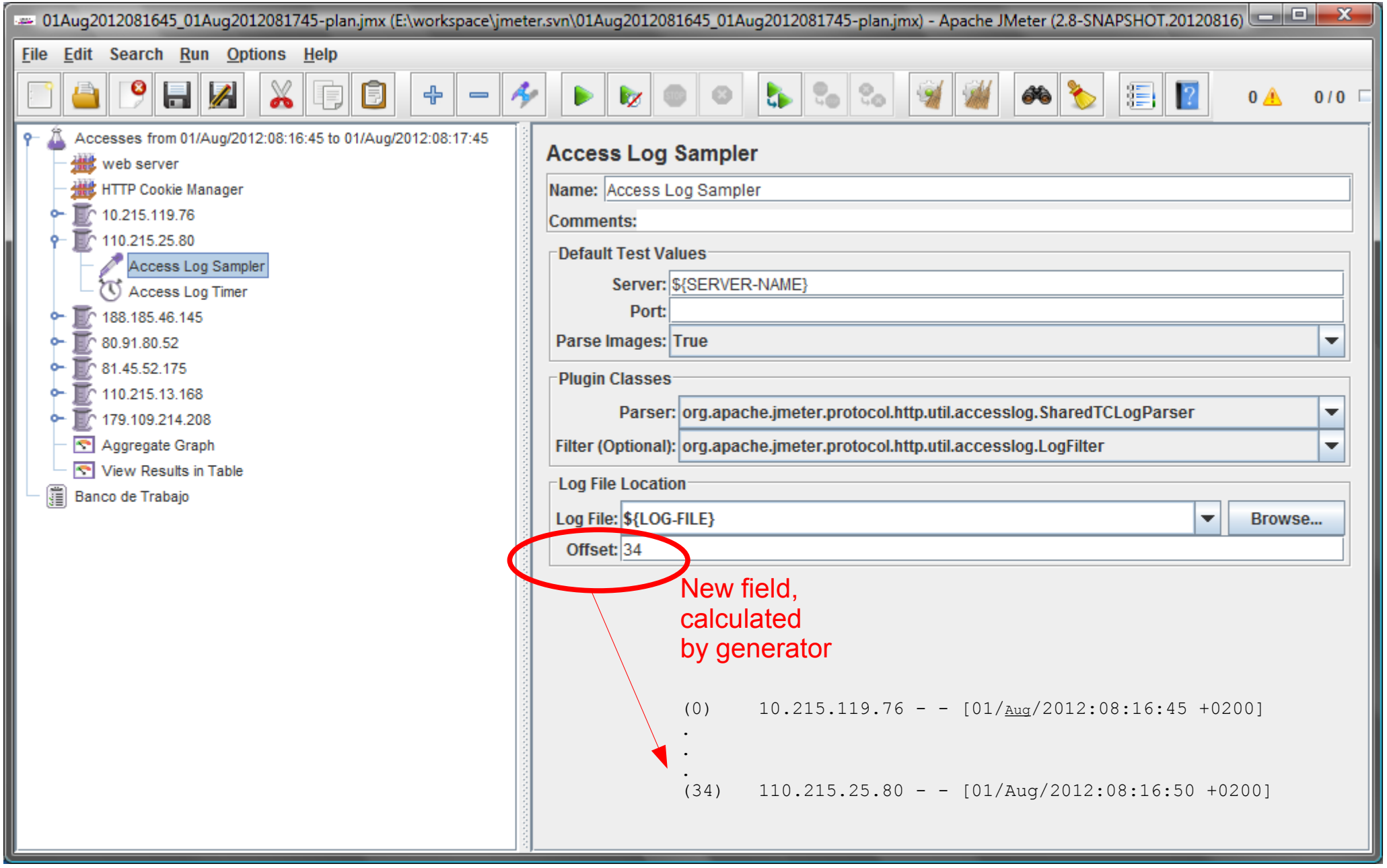
Test plan


01Aug2012081645_01Aug2012081745-plan.jmx (E:\workspace\jmeter.svn\01Aug2012081645_01Aug2012081745-plan.jmx) - Apache JMeter (2.8-SNAPSHOT.20120816)
File Edit Search Run Options Help
Accesses from 01/Aug/2012:08:16:45 to 01/Aug/2012:08:17:45
Web server
HTTP Cookie Manager
10.215.119.76
110.215.25.80
188.185.46.145
80.91.80.52
81.45.52.175
110.215.13.168
179.109.214.208
Aggregate Graph
View Results in Table
Banco de Trabajo
Date range
Test Plan
Name: Accesses from 01/Aug/2012:08:16:45 to 01/Aug/2012:08:17:45
Comments:
User Defined Variables
Name: Value
SERVER-NAME your.accessed.server
SERVER-PORT 80
SERVER-PROTOCOL HTTP
DATE-FORMAT dd/MMM/yyyy:HH:mm:ss Z
DATE-PATTERN [\w:/]+\s[+\-]\d{4}
LOG-FILE E:\workspace\jmeter.svn/sample_access_log.jmete...
Default values
Detail Add Add from Clipboard Delete Up Down
Run Thread Groups consecutively (i.e. run groups one at a time)
Functional Test Mode (i.e. save Response Data and Sampler Data)
Selecting Functional Test Mode may adversely affect performance.
Add directory or jar to classpath Browse... Delete Clear
Library

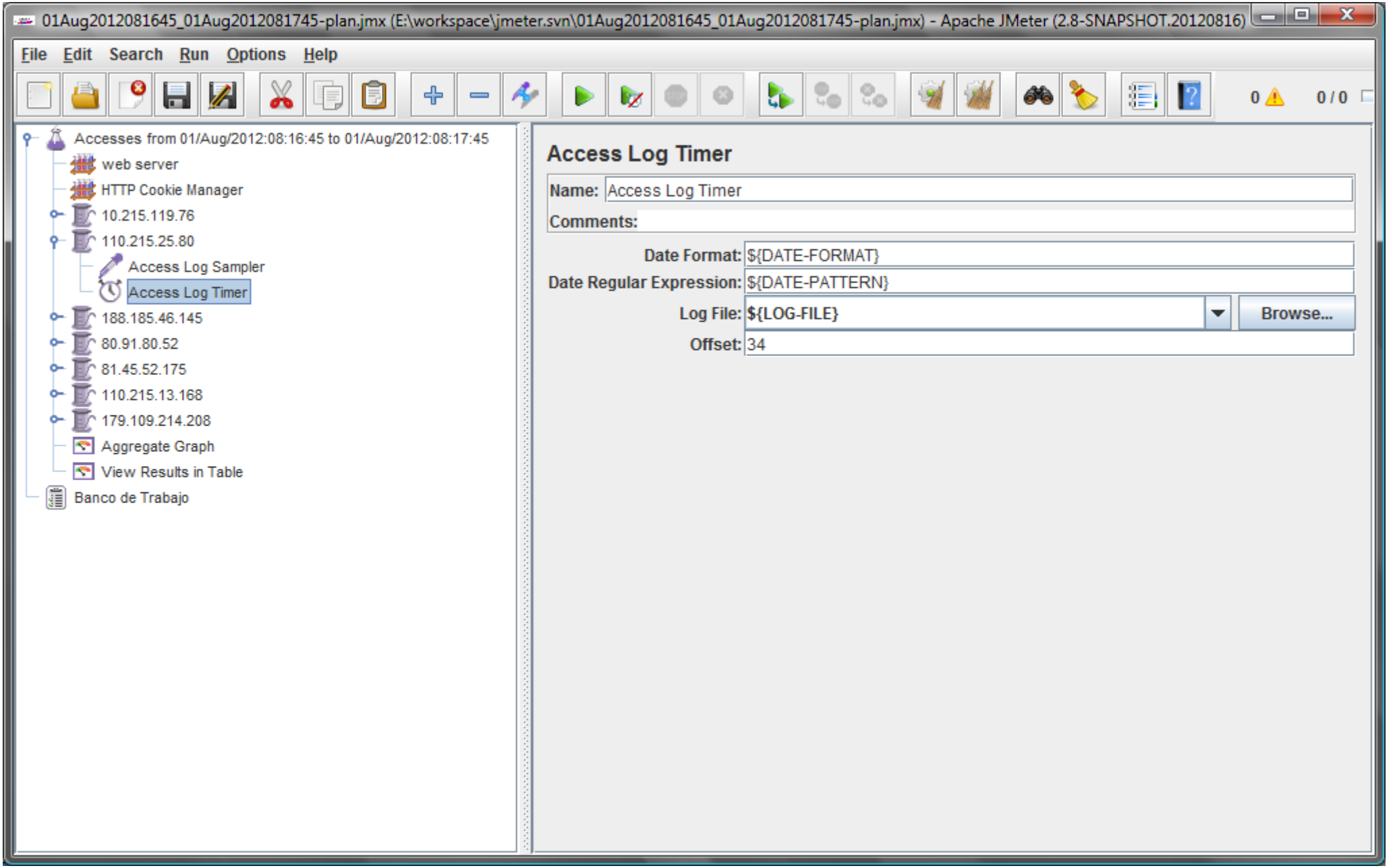
Thread group



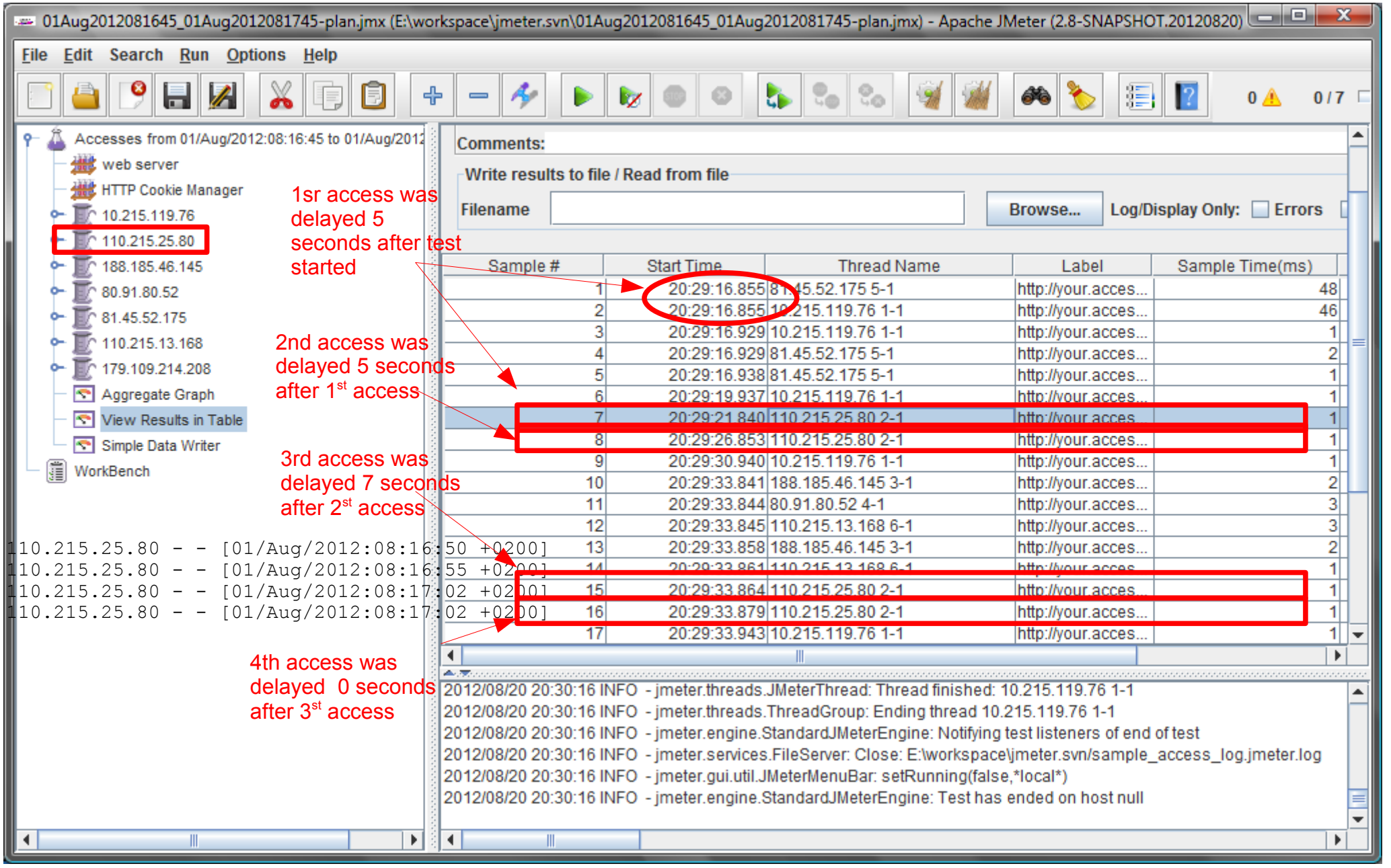
Access log sampler



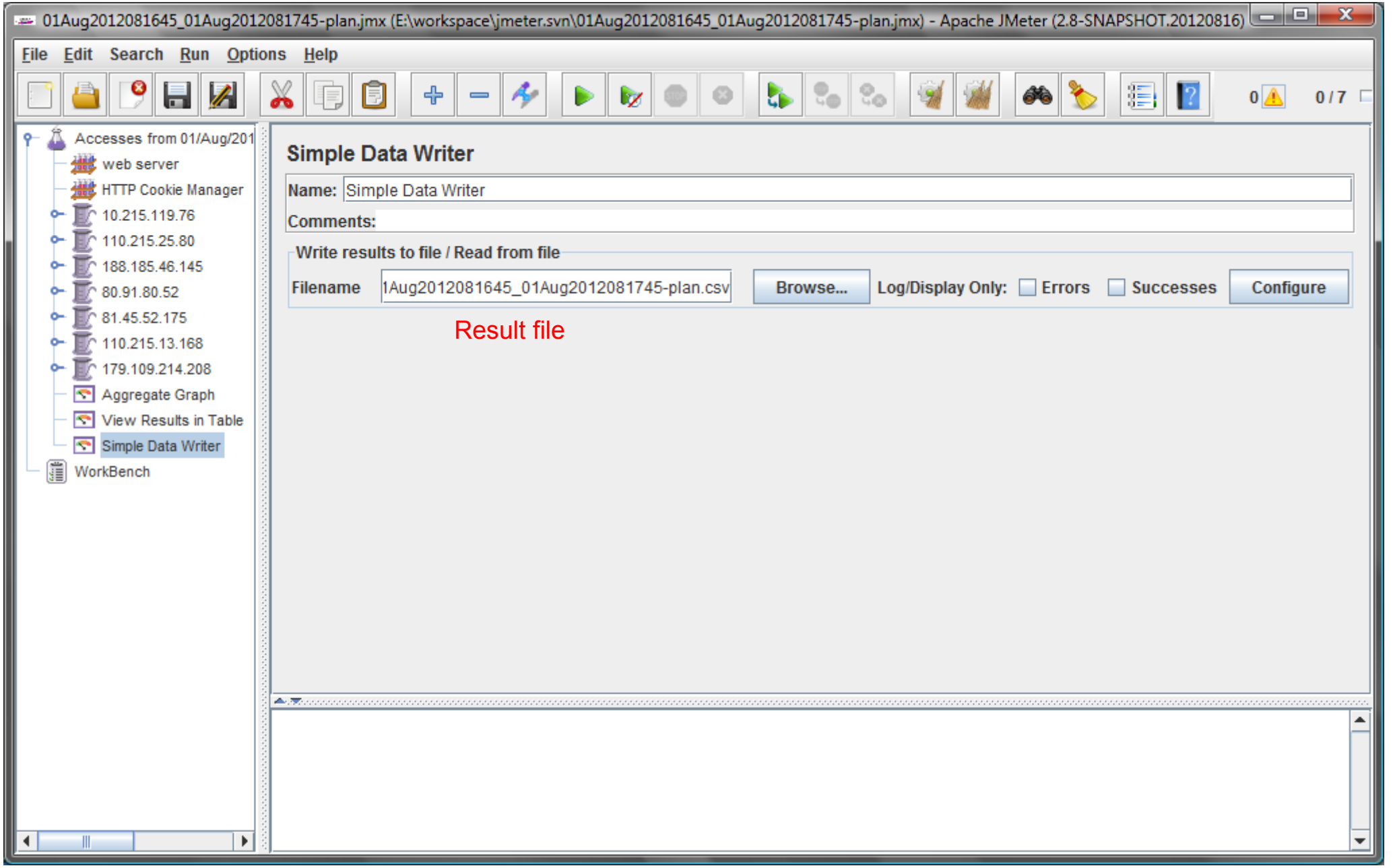
Access log timer



Execution


01Aug2012081645_01Aug2012081745-plan.jmx (E:\workspace\jmeter.svn\01Aug2012081645_01Aug2012081745-plan.jmx) - Apache JMeter (2.8-SNAPSHOT.20120820)
File Edit Search Run Options Help
Accesses from 01/Aug/2012:08:16:45 to 01/Aug/2012
web server
HTTP Cookie Manager
10.215.119.76
110.215.25.80
188.185.46.145
80.91.80.52
81.45.52.175
110.215.13.168
179.109.214.208
Aggregate Graph
View Results in Table
Simple Data Writer
WorkBench
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only:
Errors
Sample #
Start Time
Thread Name
Label
Sample Time(ms)
1 20:29:16.855 81.45.52.175 5-1 http://your.acces... 48
2 20:29:16.855 10.215.119.76 1-1 http://your.acces... 46
3 20:29:16.929 10.215.119.76 1-1 http://your.acces... 1
4 20:29:16.929 81.45.52.175 5-1 http://your.acces... 2
5 20:29:16.938 81.45.52.175 5-1 http://your.acces... 1
6 20:29:19.937 10.215.119.76 1-1 http://your.acces... 1
7 20:29:21.840 110.215.25.80 2-1 http://your.acces... 1
8 20:29:26.853 110.215.25.80 2-1 http://your.acces... 1
9 20:29:30.940 10.215.119.76 1-1 http://your.acces... 1
10 20:29:33.841 188.185.46.145 3-1 http://your.acces... 2
11 20:29:33.844 80.91.80.52 4-1 http://your.acces... 3
12 20:29:33.845 110.215.13.168 6-1 http://your.acces... 3
13 20:29:33.858 188.185.46.145 3-1 http://your.acces... 2
15 20:29:33.864 110.215.25.80 2-1 http://your.acces... 1
16 20:29:33.879 110.215.25.80 2-1 http://your.acces... 1
17 20:29:33.943 10.215.119.76 1-1 http://your.acces... 1
2012/08/20 20:30:16 INFO - jmeter.threads.JMeterThread: Thread finished: 10.215.119.76 1-1
2012/08/20 20:30:16 INFO - jmeter.threads.ThreadGroup: Ending thread 10.215.119.76 1-1
2012/08/20 20:30:16 INFO - jmeter.engine.StandardJMeterEngine: Notifying test listeners of end of test
2012/08/20 20:30:16 INFO - jmeter.services.FileServer: Close: E:\workspace\jmeter.svn/sample_access_log.jmeter.log
2012/08/20 20:30:16 INFO - jmeter.gui.util.JMeterMenuBar: setRunning(false,*local*)
2012/08/20 20:30:16 INFO - jmeter.engine.StandardJMeterEngine: Test has ended on host null
1sr access was delayed 5 seconds after test started
2nd access was delayed 5 seconds after 1st access
3rd access was delayed 7 seconds after 2st access
4th access was delayed 0 seconds after 3st access
110.215.25.80 - - [01/Aug/2012:08:16:50 +0200]
110.215.25.80 - - [01/Aug/2012:08:16:55 +0200]
110.215.25.80 - - [01/Aug/2012:08:17:02 +0200]
110.215.25.80 - - [01/Aug/2012:08:17:02 +0200]

Results


01Aug2012081645_01Aug2012081745-plan.jmx (E:\workspace\jmeter.svn\01Aug2012081645_01Aug2012081745-plan.jmx) - Apache JMeter (2.8-SNAPSHOT.20120816)
File Edit Search Run Options Help
0 0 / 7
Accesses from 01/Aug/201
web server
HTTP Cookie Manager
10.215.119.76
110.215.25.80
188.185.46.145
80.91.80.52
81.45.52.175
110.215.13.168
179.109.214.208
Aggregate Graph
View Results in Table
Simple Data Writer
WorkBench
Simple Data Writer
Name: Simple Data Writer
Comments:
Write results to file / Read from file
Filename 1Aug2012081645_01Aug2012081745-plan.csv
Browse...
Log/Display Only: Errors Successes
Configure
Result file

Tests and demos

Tested with an apache access log of 100.000 samples
and 2.200 thread groups generated

To try it, you can generate some sample plans with Junit (*) available in test

`org.apache.jmeter.protocol.http.util.accesslog.TestPlanGeneratorTest.java:`

`testGivenDateRangeInsideAccessLogRangeGeneratesTestPlan()`

`testGivenDateRangeOutsideAccessLogRangeGeneratesTestPlan()`

`testGivenNoRangeGeneratesTestPlan()`

To see what the generator produces, I suggest to set in these tests:

```
request.printProgress=true;
request.progressInterval=1000; //prints how many entries of
the access log have been processed so far
```

(*) in a later phase the generator could be a command line