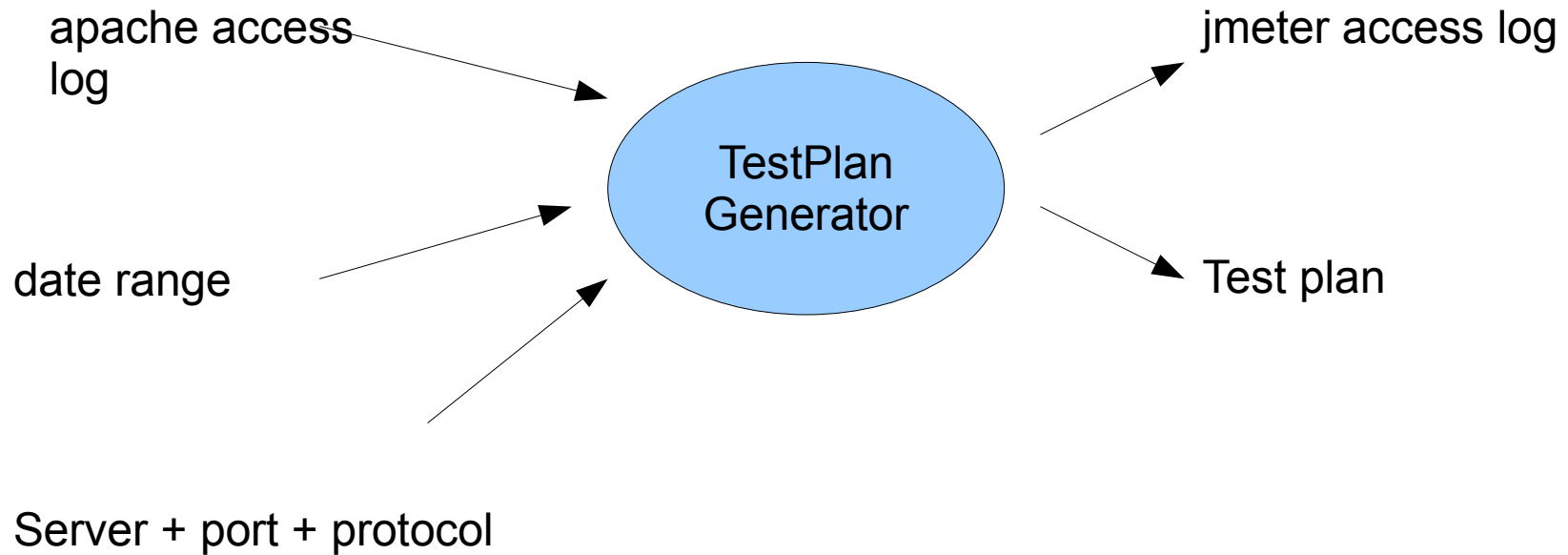


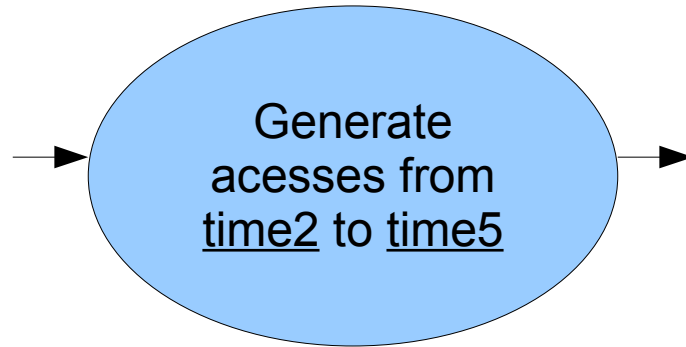
General view



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	....	Thread group IP3 (offset 0)
1	IP3	time3	...	
2	IP3	time4	...	
3	IP1	time3	...	Thread group IP1 (offset 3)
4	IP2	time4	....	Thread group IP2 (offset 4)
5	IP2	time5	...	

Access Log Timer

Accesses from time(2) to time(5)

Access Log Timer
for IP3

Thread group start up delay = $2 - 2 = 0$

Sample IP3 time(2).... \rightarrow delay = 0

Sample IP3 time(3) ... \rightarrow delay = 1

Sample IP3 time(4) ... \rightarrow delay = 1

Access Log Timer
for IP1

Thread group start up delay = $3 - 2 = 1$

Sample IP1 time(3) ... \rightarrow delay = 0

Access Log Timer
for IP2

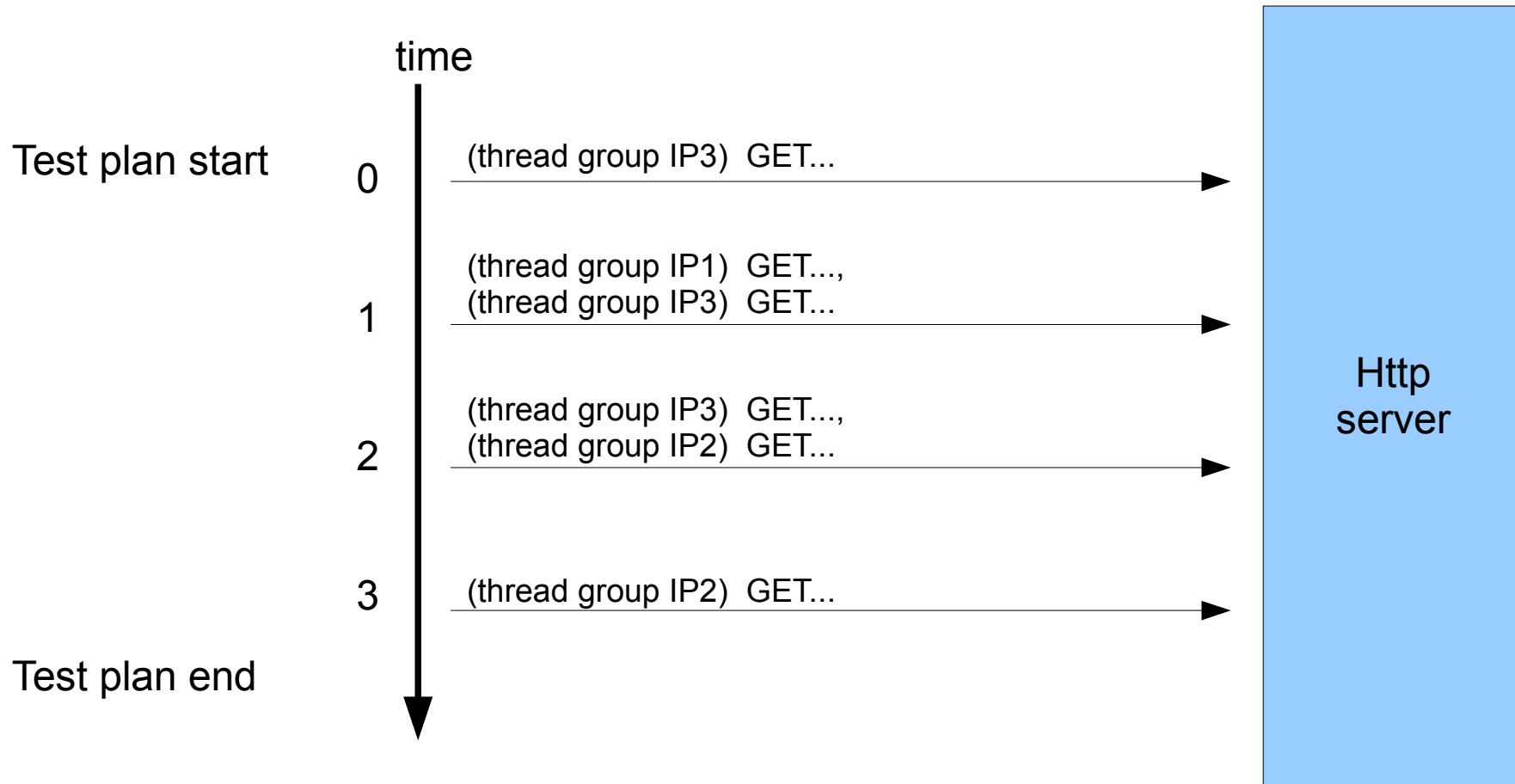
Thread group start up delay = $4 - 2 = 2$

Sample IP2 time(4) \rightarrow delay = 0

Sample IP2 time(5) ... \rightarrow delay = 1

Timing

Accesses from time2 to time5



Test plan

The screenshot displays the Apache JMeter 2.8-SNAPSHOT.20120816 interface. The title bar shows the file path: 01Aug2012081645_01Aug2012081745-plan.jmx (E:\workspace\jmeter.svn\01Aug2012081645_01Aug2012081745-plan.jmx) - Apache JMeter (2.8-SNAPSHOT.20120816). The menu bar includes File, Edit, Search, Run, Options, and Help. The toolbar contains various icons for file operations, test execution, and viewing results.

On the left sidebar, the test plan structure is visible:

- Accesses from 01/Aug/2012:08:16:45 to 01/Aug/2012:08:17:45 (highlighted with a red box and labeled "Date range")
- 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

The main panel displays the "Test Plan" configuration:

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...

Below the table, the text "Default values" is displayed in red. The table contains default values for various variables used in the test plan.

Buttons: 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

The screenshot displays the Apache JMeter 2.8-SNAPSHOT interface. The left sidebar shows a tree view of the test plan. A red box highlights the 'Accesses from 01/Aug/2012:08:16:45 to 01/Aug/2012:08:17:45' entry, which is linked to the 'web server' component. A red arrow points from this box to the 'Access Log Sampler' component in the tree. The main panel shows the configuration for a 'Thread Group'. The 'Name' is '110.215.25.80'. The 'Comments' field is empty. The 'Action to be taken after a Sampler error' is set to 'Continue'. The 'Thread Properties' section shows 'Number of Threads (users): 1', 'Ramp-Up Period (in seconds): 1', and 'Loop Count: 4' (circled in red). The 'Scheduler' checkbox is checked. The 'Scheduler Configuration' section shows 'Start Time: 1970/01/01 01:00:00', 'End Time: 1970/01/01 01:00:00', 'Duration (seconds): 12000' (circled in red), and 'Startup delay (seconds): 5' (circled in red). Red text annotations explain these values: 'Number of requests (calculated by generator)' points to the 'Loop Count' field, and 'Filedts calculated by generator' points to the 'Duration (seconds)' field. A red arrow points from the 'Accesses from...' box to the 'Access Log Sampler' component, with the text '+5 seconds' next to it. The bottom of the window shows a list of test results for the '110.215.25.80' thread group.

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

Access Log Sampler

Access Log Timer

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

Thread Group

Name: 110.215.25.80

Comments:

Action to be taken after a Sampler error

☒ Continue ☐ Start Next Thread Loop ☐ Stop Thread ☐ Stop Test ☐ Stop Test Now

Thread Properties

Number of Threads (users): 1

Ramp-Up Period (in seconds): 1

Loop Count: ☐ Forever ☒ 4

☐ Delay Thread creation until needed

☒ Scheduler

Scheduler Configuration

Start Time: 1970/01/01 01:00:00

End Time: 1970/01/01 01:00:00

Duration (seconds): 12000

Startup delay (seconds): 5

+5 seconds

Number of requests (calculated by generator)

Filedts calculated by generator

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]

Access log sampler

The screenshot shows the Apache JMeter 2.8-SNAPSHOT.20120816 interface. The left sidebar displays a test plan tree for '01Aug2012081645_01Aug2012081745-plan.jmx'. The 'Access Log Sampler' is selected under the 'Accesses from 01/Aug/2012:08:16:45 to 01/Aug/2012:08:17:45' folder. The main configuration panel for the 'Access Log Sampler' is shown on the right. It includes fields for Name, Comments, Default Test Values (Server, Port, Parse Images), Plugin Classes (Parser, Filter), and Log File Location (Log File, Offset). The 'Offset' field is circled in red and has a red arrow pointing to the output log lines. The output shows two log entries: one at index (0) and another at index (34), both with a timestamp of [01/Aug/2012:08:16:45 +0200].

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
- Access Log Sampler**
- Access Log Timer
- 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

Access Log Sampler

Name: Access Log Sampler

Comments:

Default Test Values

Server: \${SERVER-NAME}

Port:

Parse Images: True

Plugin Classes

Parser: org.apache.jmeter.protocol.http.util.accesslog.SharedTCLogParser

Filter (Optional): org.apache.jmeter.protocol.http.util.accesslog.LogFilter

Log File Location

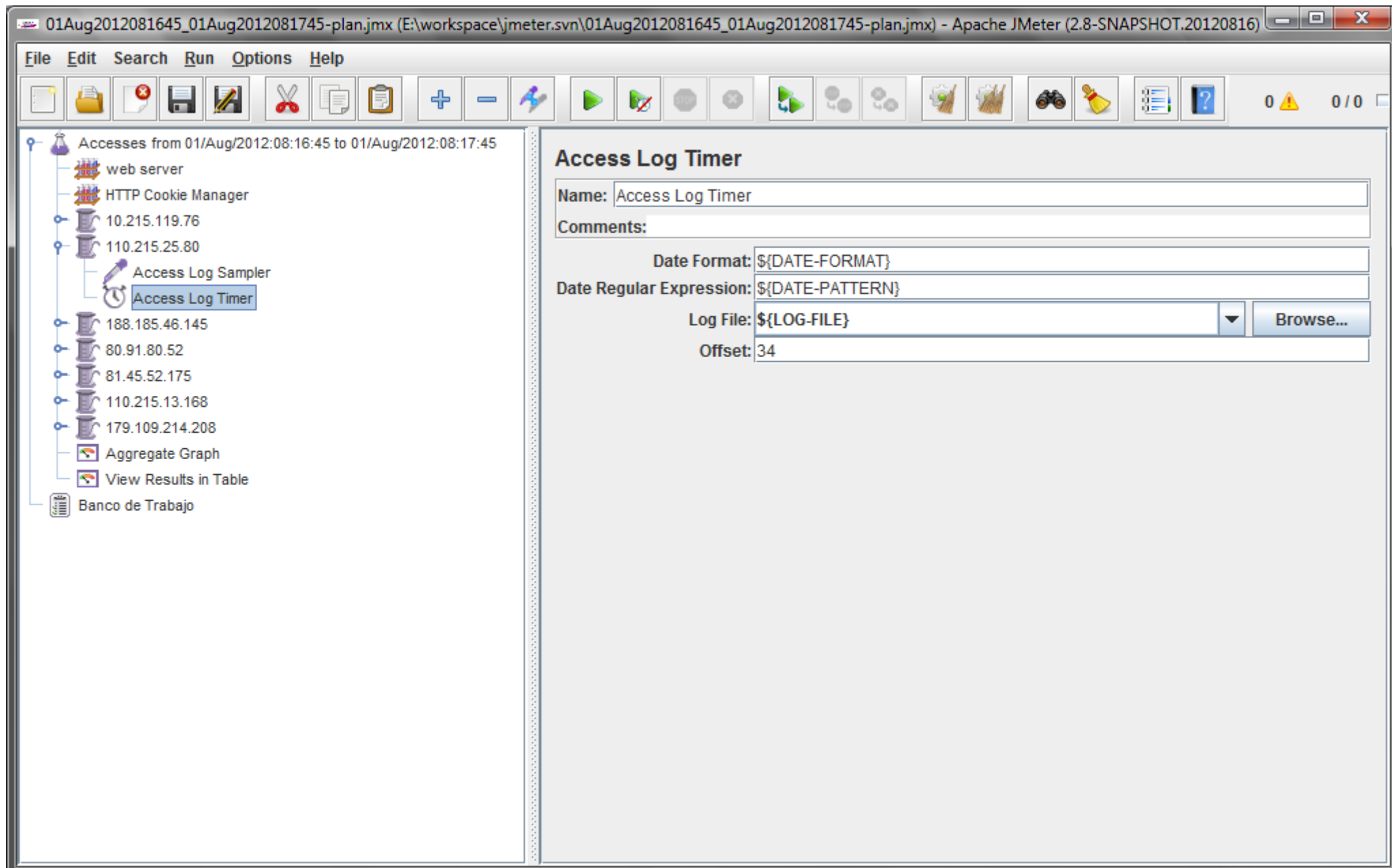
Log File: \${LOG-FILE}

Offset: 34

New field, calculated by generator

```
(0) 10.215.119.76 - - [01/Aug/2012:08:16:45 +0200]
.
.
(34) 110.215.25.80 - - [01/Aug/2012:08:16:50 +0200]
```

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/2012:08:17:45

- 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
- Simple Data Writer
- WorkBench

1st access was delayed 5 seconds after test started

2nd access was delayed 5 seconds after 1st access

3rd access was delayed 7 seconds after 2nd access

4th access was delayed 0 seconds after 3rd access

Comments:

Write results to file / Read from file

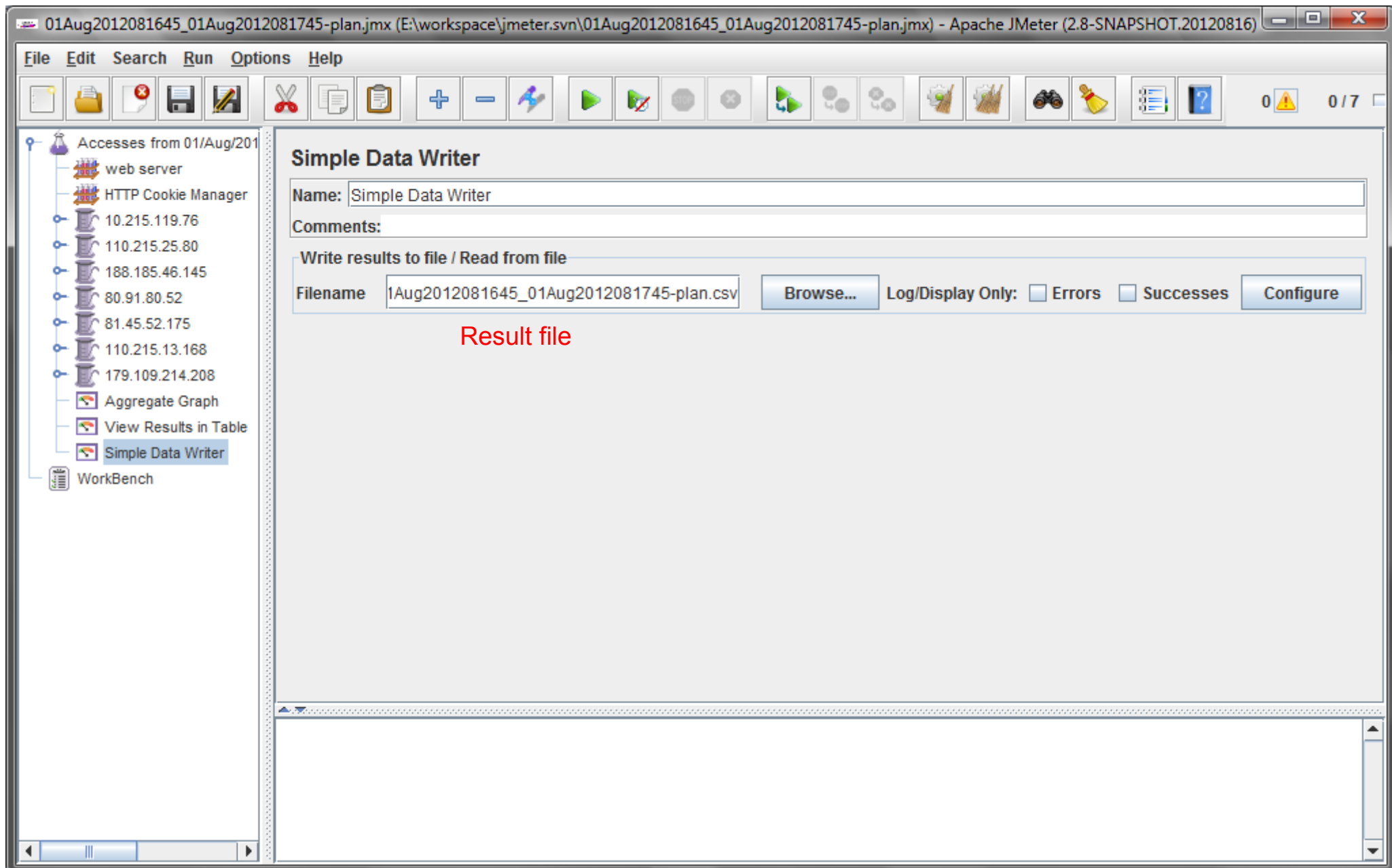
Filename Browse... Log/Display Only: ☐ Errors

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
14	20:29:33.861	110.215.13.168 6-1	http://your.acces...	1
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

```
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]
```

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

Results



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