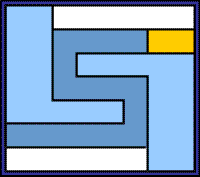
University of Seville  
 School of Computer Engineering

**Performance Report**



Software engineering  
Design and testing 2

2018 – 2019

04/21/2019

Group 26

**Index**

[1. Observations 4](#_Toc10410251)

[2. Package 4](#_Toc10410252)

[Create 4](#_Toc10410253)

[Edit LUIS 5](#_Toc10410254)

[Delete 7](#_Toc10410255)

[Conclusion 8](#_Toc10410256)

[3. Evaluation 9](#_Toc10410257)

[Create 9](#_Toc10410258)

[Delete 11](#_Toc10410259)

[Conclusion 12](#_Toc10410260)

[4. TODO DE AQUI PABAJO SE BORRA 13](#_Toc10410261)

[5. Position 13](#_Toc10410262)

[Create 13](#_Toc10410263)

[Edit 15](#_Toc10410264)

[Delete 17](#_Toc10410265)

[Conclusion 19](#_Toc10410266)

[6. Mess 20](#_Toc10410267)

[Search by tags, list by that tag and display a mess 20](#_Toc10410268)

[Send a message 21](#_Toc10410269)

[Delete a message 23](#_Toc10410270)

[Send a broadcast mess 25](#_Toc10410271)

[Conclusion 26](#_Toc10410272)

[7. Dashboard 27](#_Toc10410273)

[Display the dashboard and set the spammers 27](#_Toc10410274)

[Conclusion 28](#_Toc10410275)

[8. Configuration 29](#_Toc10410276)

[Display the configuration and edit it 29](#_Toc10410277)

[Conclusion 31](#_Toc10410278)

[9. Problem 31](#_Toc10410279)

[Create 31](#_Toc10410280)

[Edit 33](#_Toc10410281)

[Delete 35](#_Toc10410282)

[Conclusion 37](#_Toc10410283)

[10. Finder 37](#_Toc10410284)

[Search and clear 37](#_Toc10410285)

[Conclusion 39](#_Toc10410286)

[11. Curricula 39](#_Toc10410287)

[Create a curriculum 39](#_Toc10410288)

[Delete a curriculum 41](#_Toc10410289)

[12. Datas (Personal, Education, Position and Miscellaneous data) 43](#_Toc10410290)

[Create all datas 43](#_Toc10410291)

[Edit a position data 45](#_Toc10410292)

[Edit a education data 47](#_Toc10410293)

[Edit a miscellaneous data 49](#_Toc10410294)

[Delete a position data 50](#_Toc10410295)

[Delete a education data 52](#_Toc10410296)

[Delete a miscellaneous data 54](#_Toc10410297)

[Conclusion 56](#_Toc10410298)

[13. Social profile 56](#_Toc10410299)

[Create 56](#_Toc10410300)

[Edit 58](#_Toc10410301)

[Delete 61](#_Toc10410302)

[Conclusion 62](#_Toc10410303)

[14. Actor 63](#_Toc10410304)

[Create 63](#_Toc10410305)

[Edit 65](#_Toc10410306)

[Delete 67](#_Toc10410307)

[Conclusion 69](#_Toc10410308)

[15. Application 69](#_Toc10410309)

[Create 69](#_Toc10410310)

[Edit 71](#_Toc10410311)

[Delete 73](#_Toc10410312)

[Conclusion 75](#_Toc10410313)

[16. Audit 75](#_Toc10410314)

[Assign 75](#_Toc10410315)

[Create 77](#_Toc10410316)

[Edit 80](#_Toc10410317)

[Delete 82](#_Toc10410318)

[Conclusion 84](#_Toc10410319)

[17. Sponsorship 85](#_Toc10410320)

[Create 85](#_Toc10410321)

[Edit 87](#_Toc10410322)

[Delete 89](#_Toc10410323)

[Conclusion 90](#_Toc10410324)

[18. Item 91](#_Toc10410325)

[Create 91](#_Toc10410326)

[Edit 93](#_Toc10410327)

[Delete 95](#_Toc10410328)

[Conclusion 96](#_Toc10410329)

[19. Conclusion of the performance 97](#_Toc10410330)

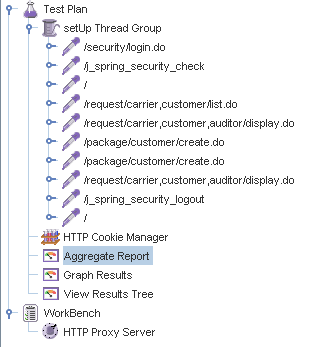
# Observations

We have considered that our performance tests were valid as long as they were lasting between 2’5 and 3 seconds and no error was showed.

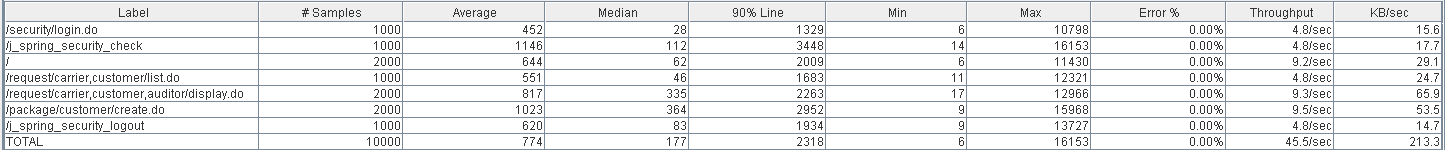
# Package

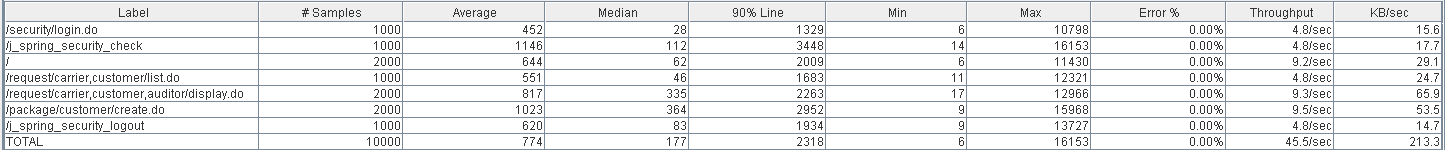
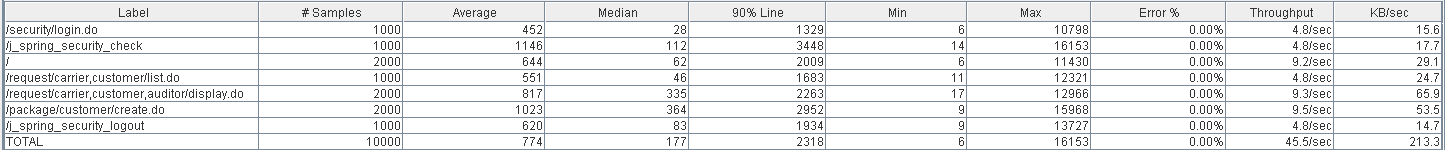
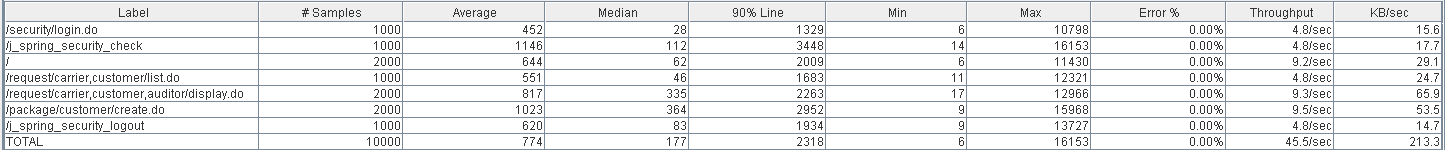
## Create

Sequence:



Aggregate Report:

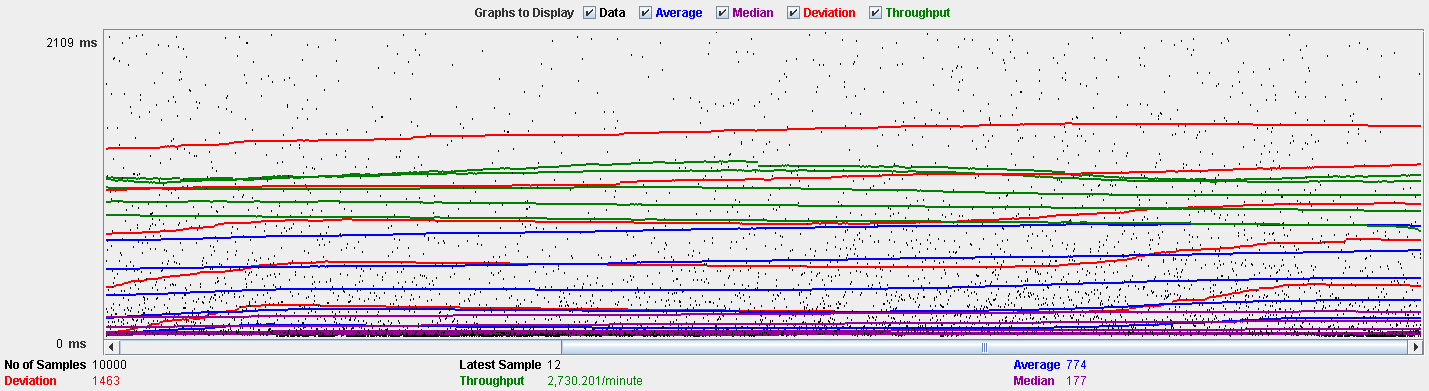




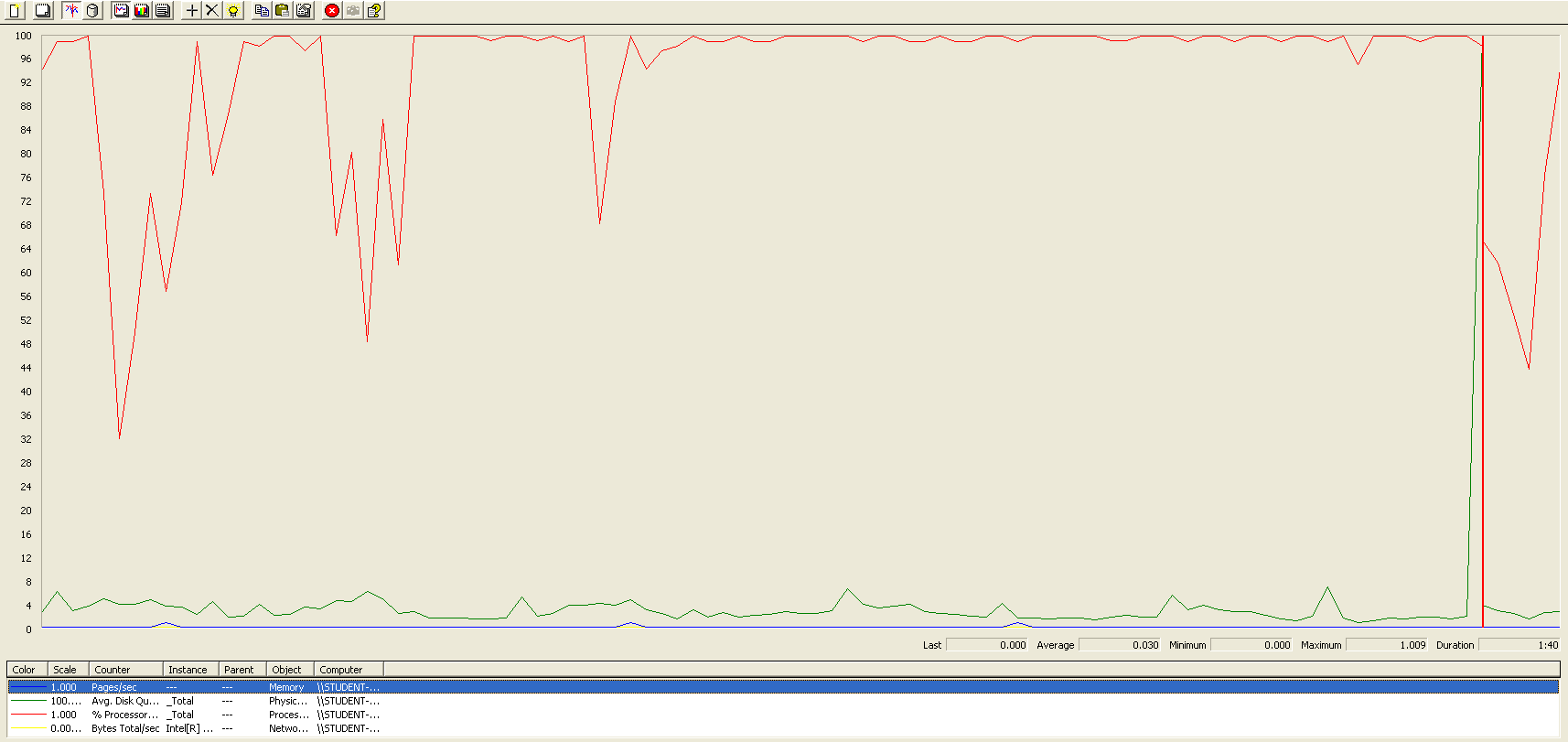
Thread properties:



Graph Results:



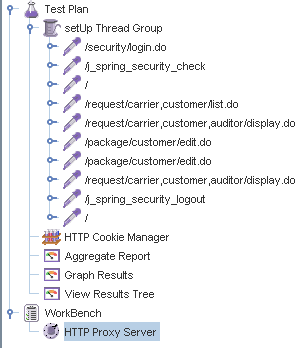
Performance Results:



The CPU is always being used while the disk usage is barely noticeable..

## Edit LUIS

Sequence:



Aggregate Report:

Thread properties:

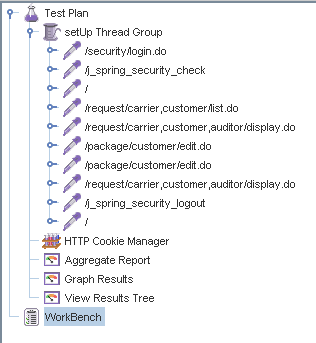
Graph Results:

Performance Results:

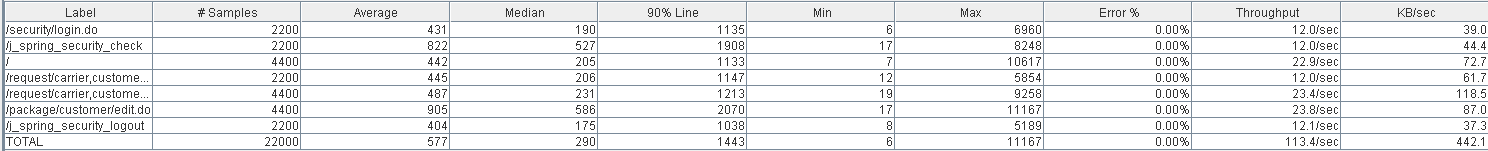
Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

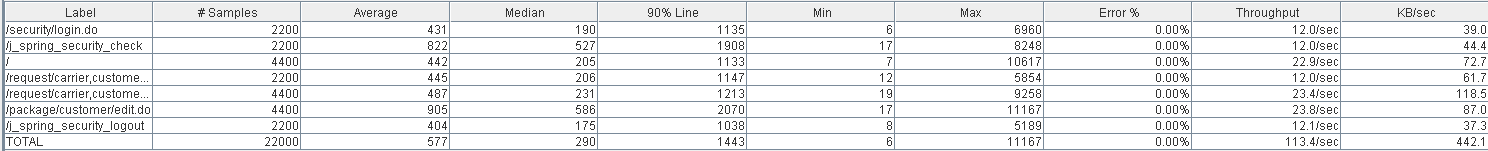
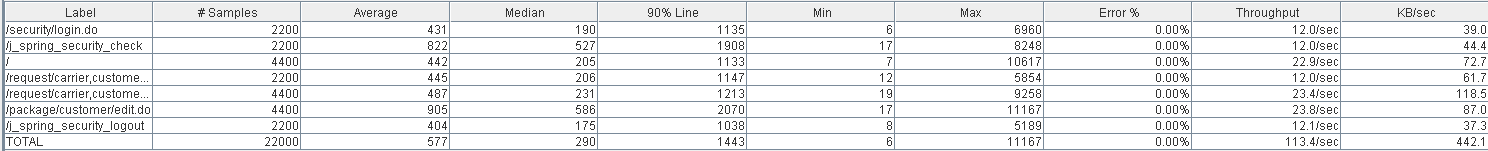
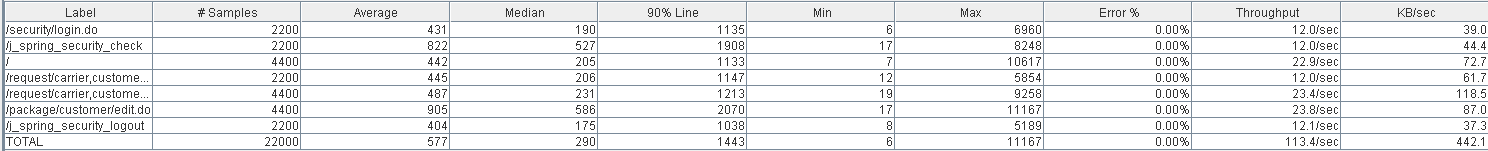
## Delete

Sequence:

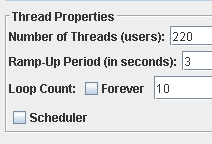


Aggregate Report:

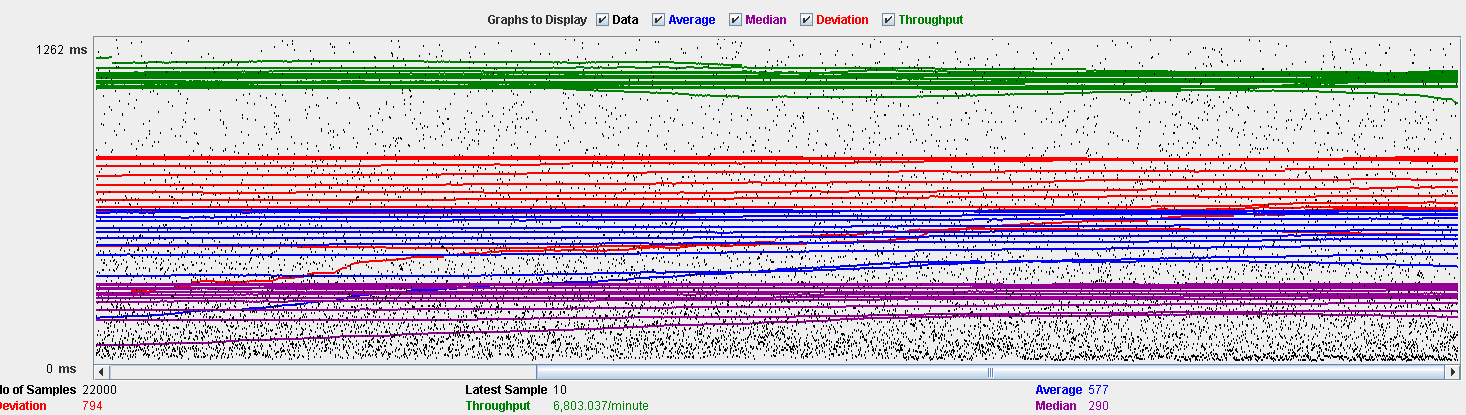




Thread properties:

.

Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some peaks. The times are a little bit lower in order to avoid errors.

## Conclusion

The test was performed using:

CPU: i7 6700hq (2 cores in the virtual machine)

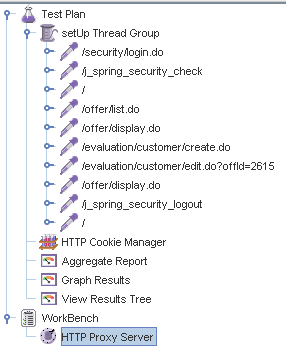
RAM: 4 GB (virtual machine)

For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users 100. The times during the delete process did not reach the 3 seconds mark in order to avoid errors.

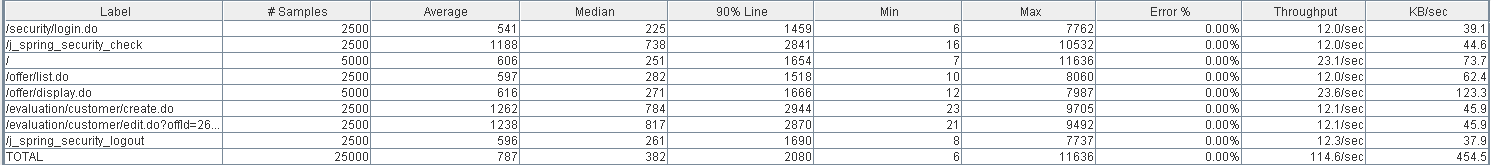
# Evaluation

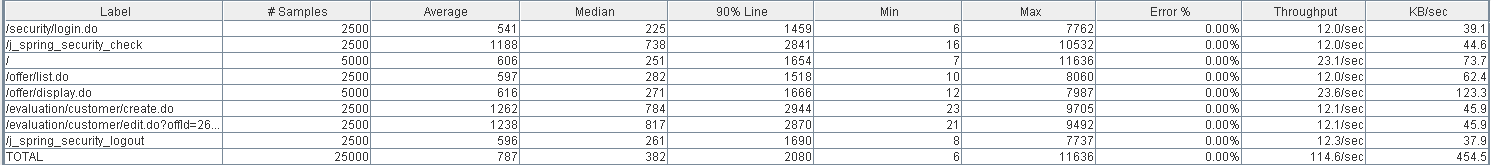
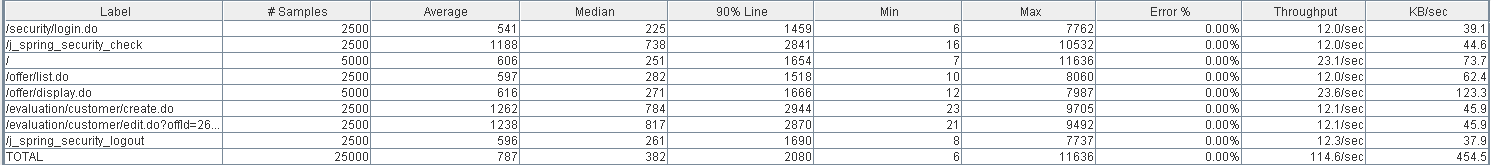
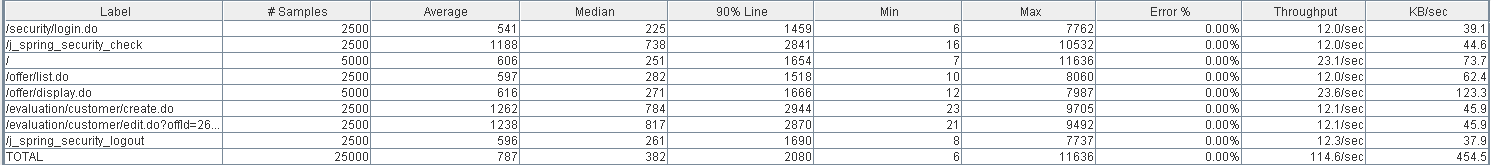
## Create

Sequence:

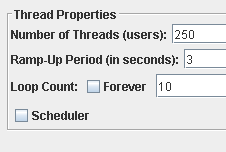


Aggregate Report:

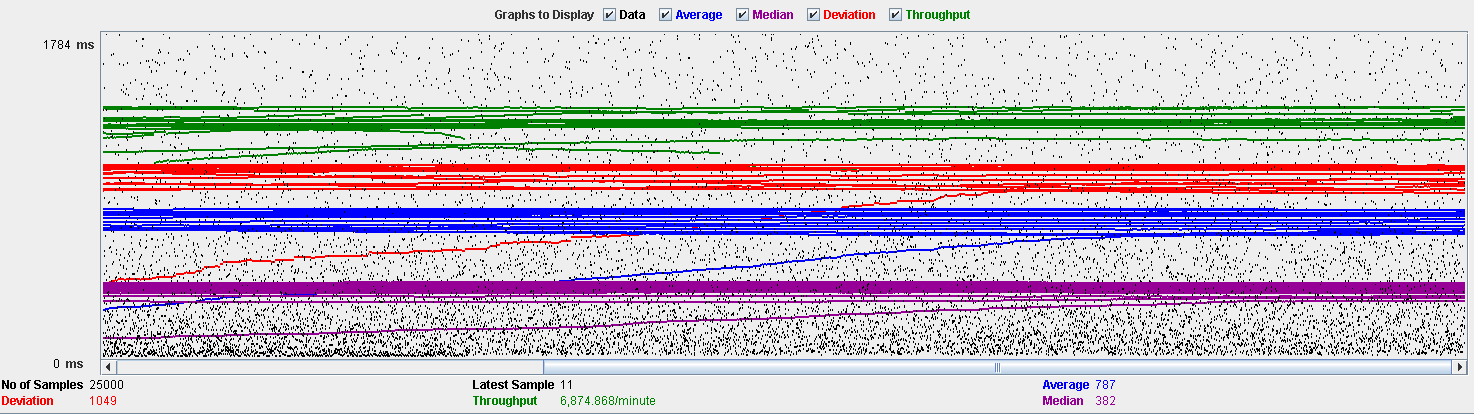




Thread properties:



Graph Results:



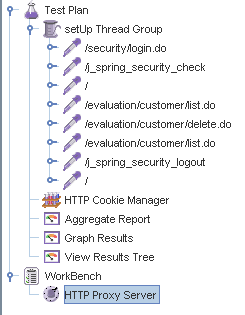
Performance Results:



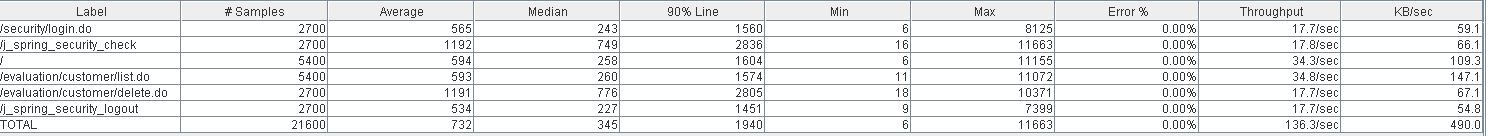
The CPU is always being used while the disk usage is barely noticeable.

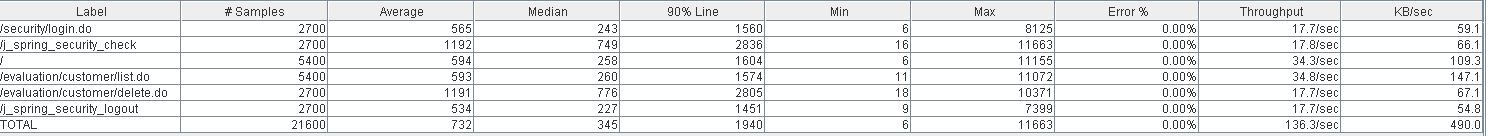
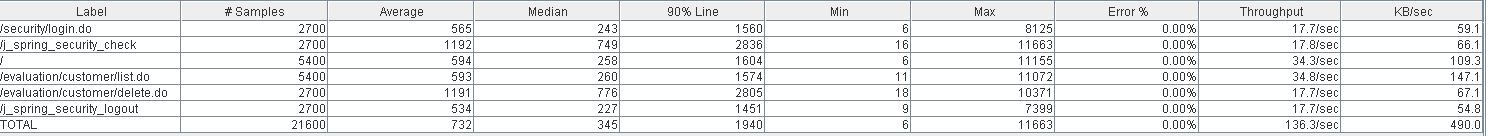
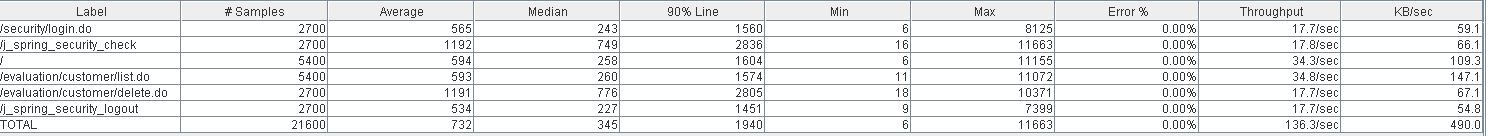
## Delete

Sequence:

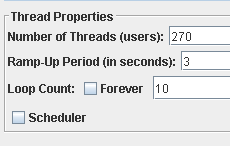


Aggregate Report:

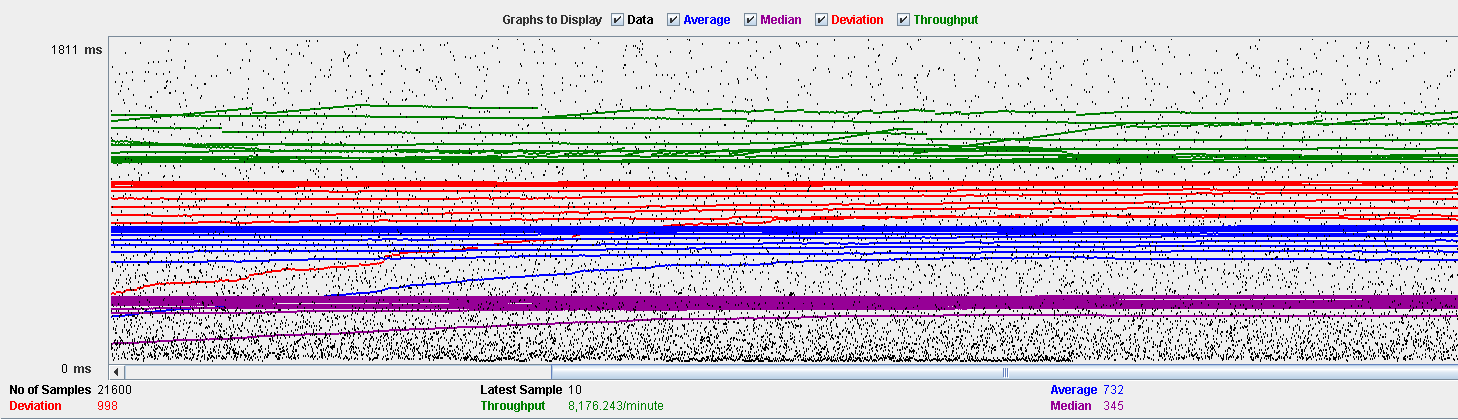




Thread properties:



Graph Results:



Performance Results:



The CPU is always being used while the disk usage is barely noticeable..

## Conclusion

The test was performed using:

CPU: i7 7700hq (2 cores in the virtual machine)

RAM: 4 GB (virtual machine)

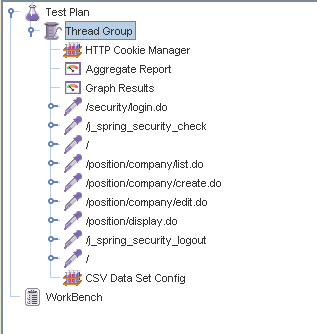
For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users 250.

# TODO DE AQUI PABAJO SE BORRA

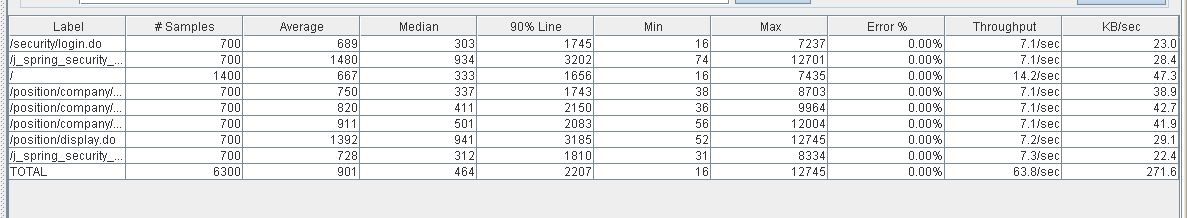
# Position

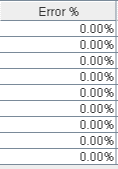
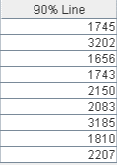
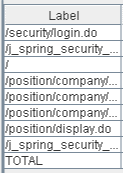
## Create

Sequence:



Aggregate Report:

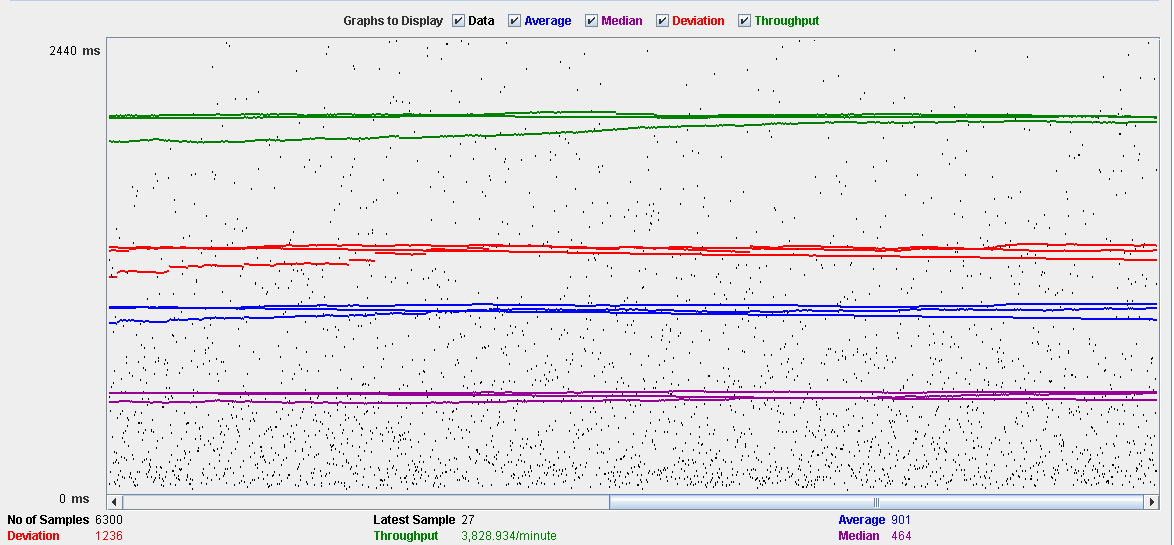




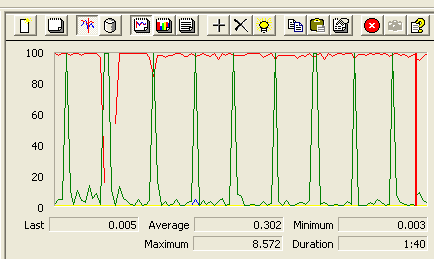
Thread properties:



Graph Results:



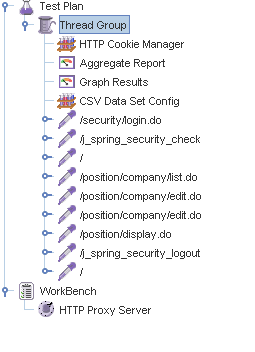
Performance Results:



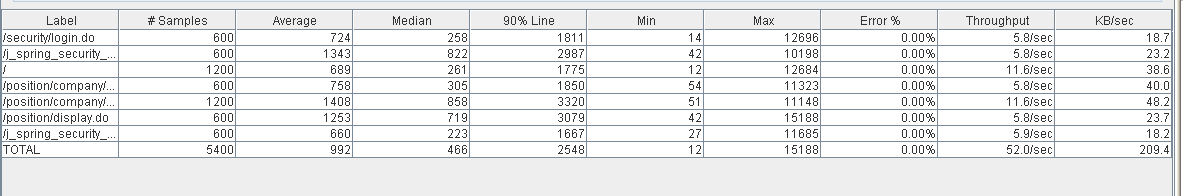
The CPU was always at its limit while the disk usage showed many peaks.

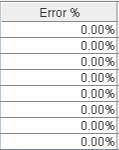
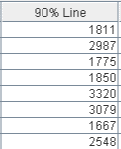
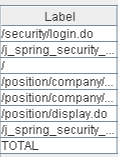
## Edit

Sequence:

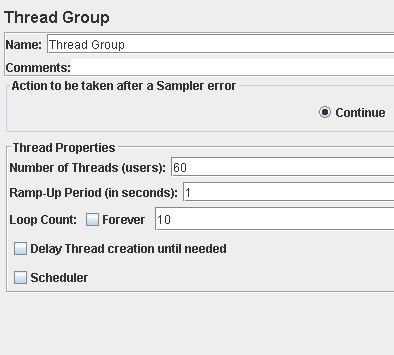


Aggregate Report:

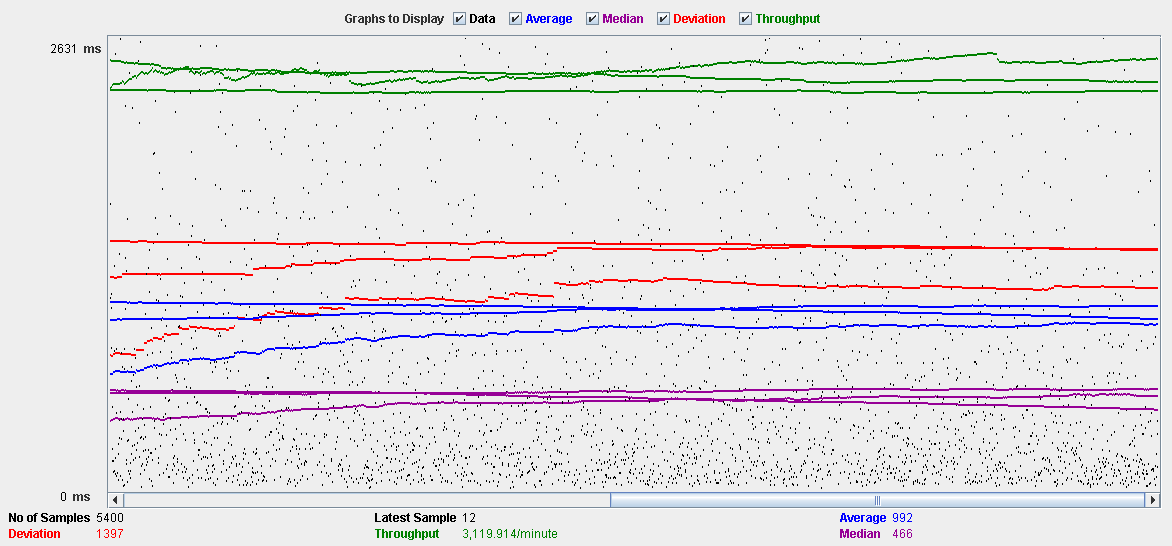




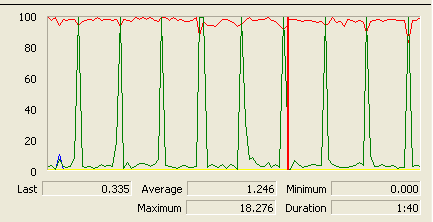
Thread properties:



Graph Results:



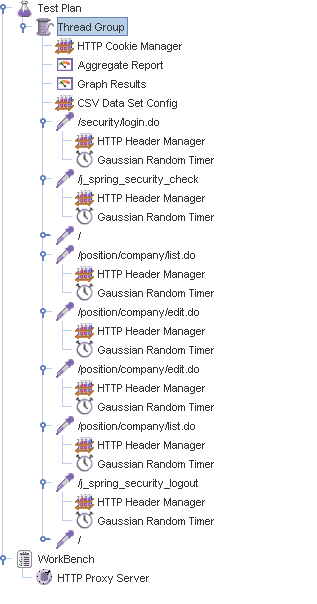
Performance Results:



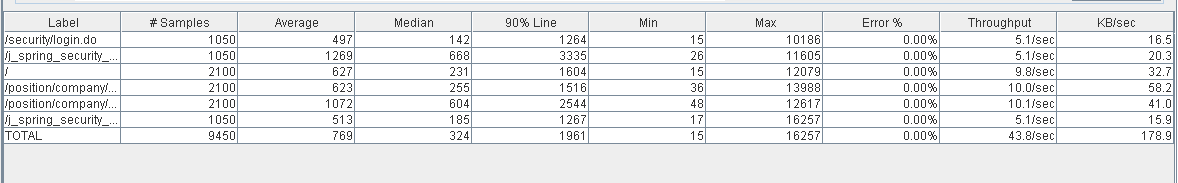
Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

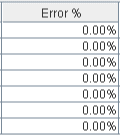
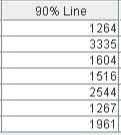
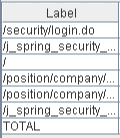
## Delete

Sequence:

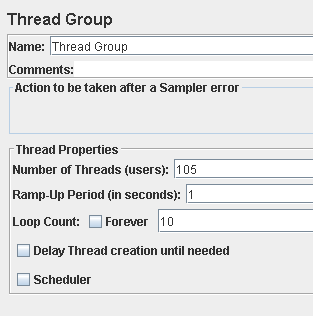


Aggregate Report:

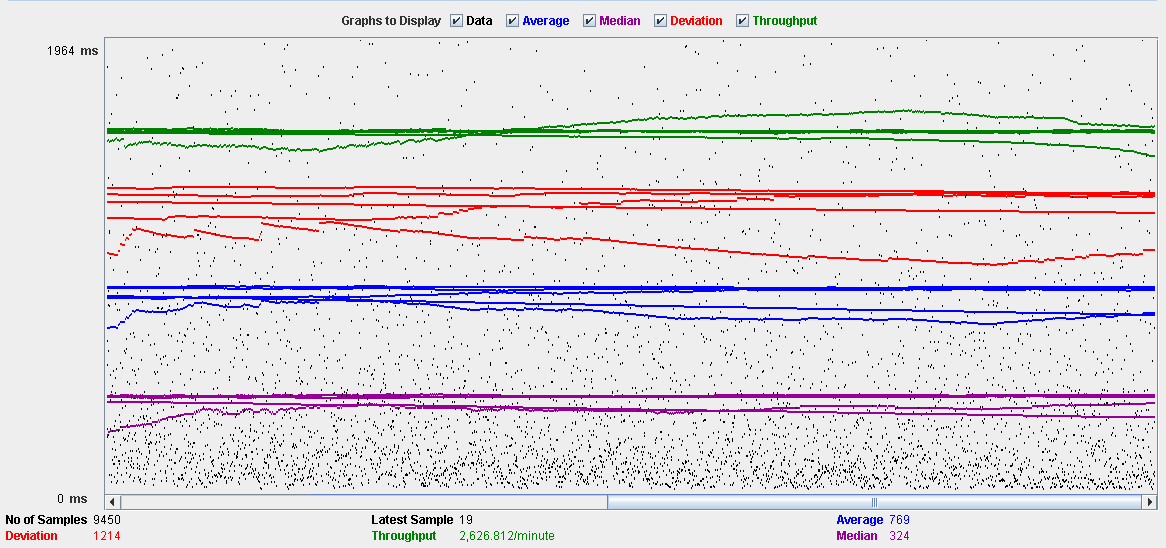




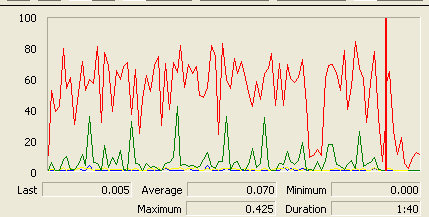
Thread properties:

.

Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some peaks.

## Conclusion

The test was performed using:

CPU: 5 2500k (2 cores in the virtual machine)

RAM: 2 GB (virtual machine)

For this use case we can say that the limitation occurs during the edit process, being the maximum of concurrent users 60 because the time of respond starts to be very high at that point.

# Mess

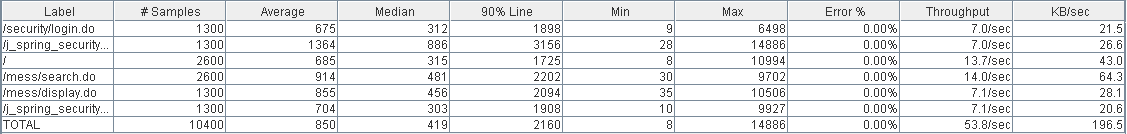
## Search by tags, list by that tag and display a mess

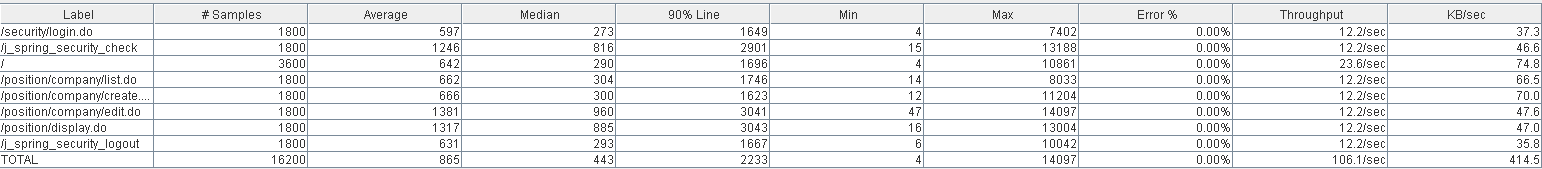
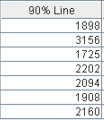
Sequence:

Imagen que contiene captura de pantalla

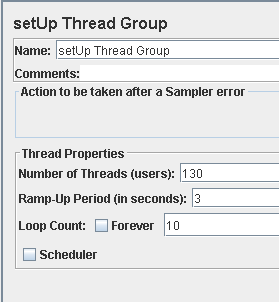
Descripción generada automáticamente

Aggregate Report:

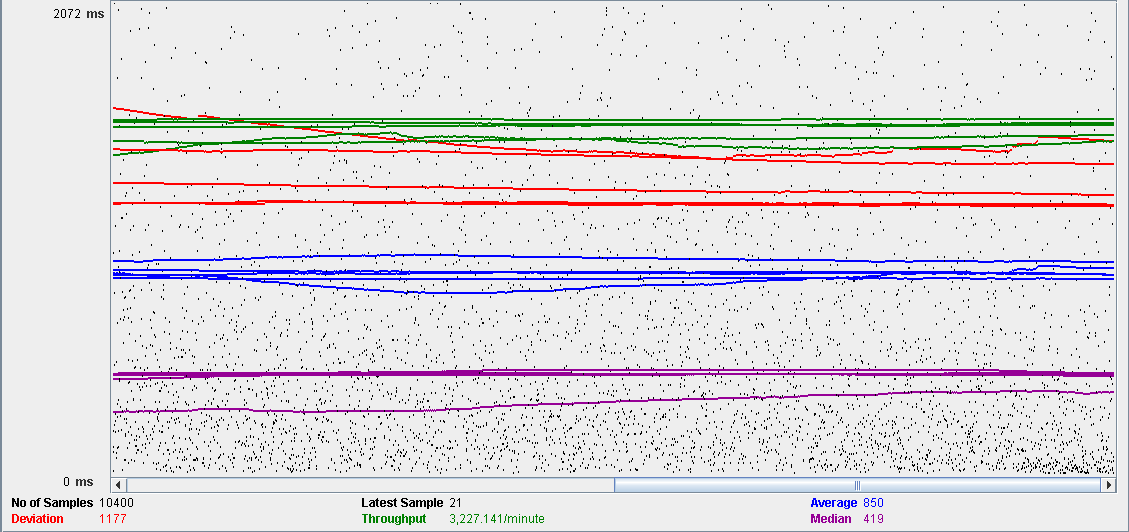




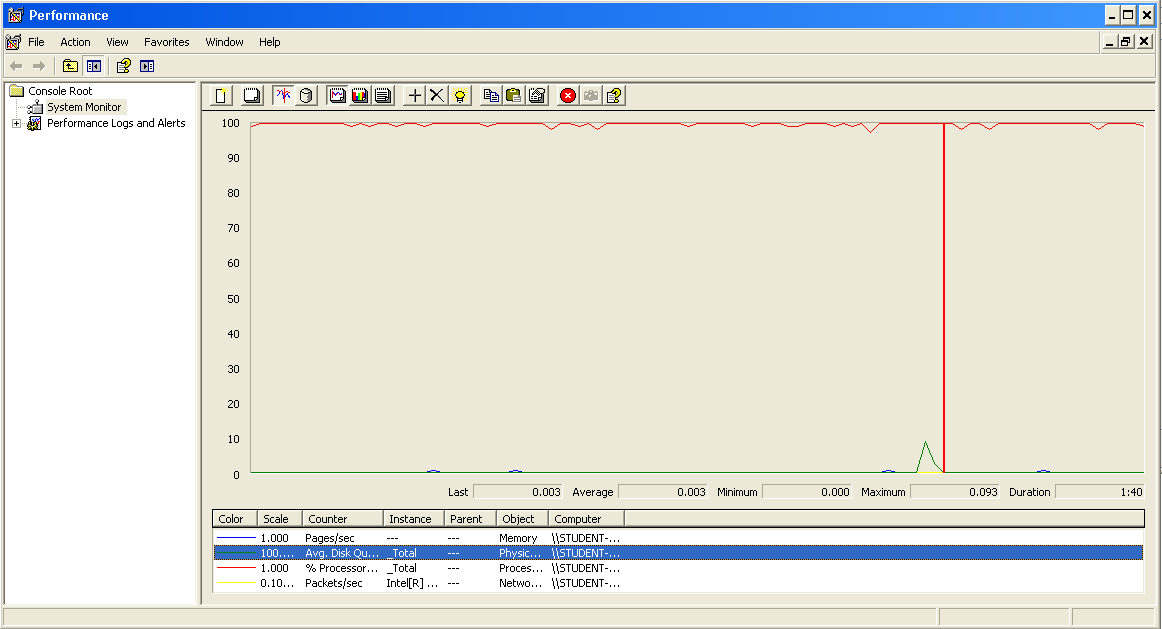
Thread properties:



Graph Results:



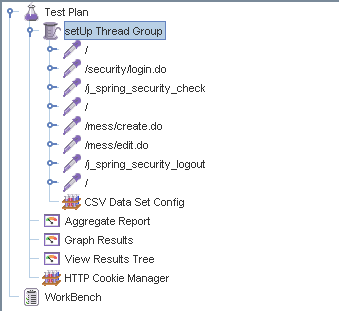
Performance Results:



The CPU was always at its limit while the disk usage showed many peaks.

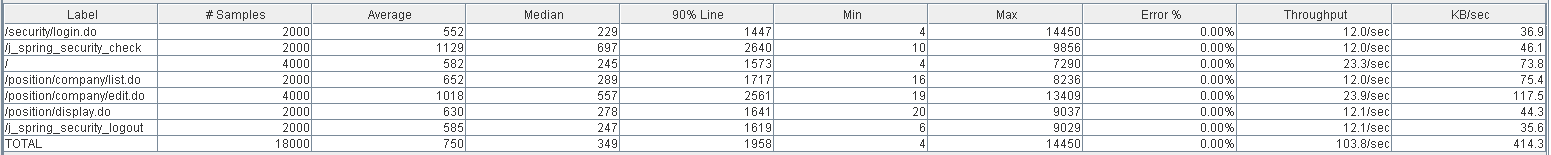
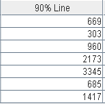
## Send a message

Sequence:

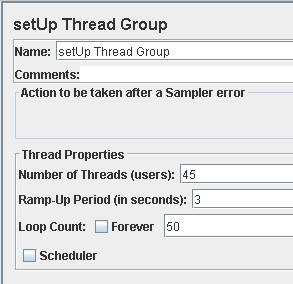


Aggregate Report:

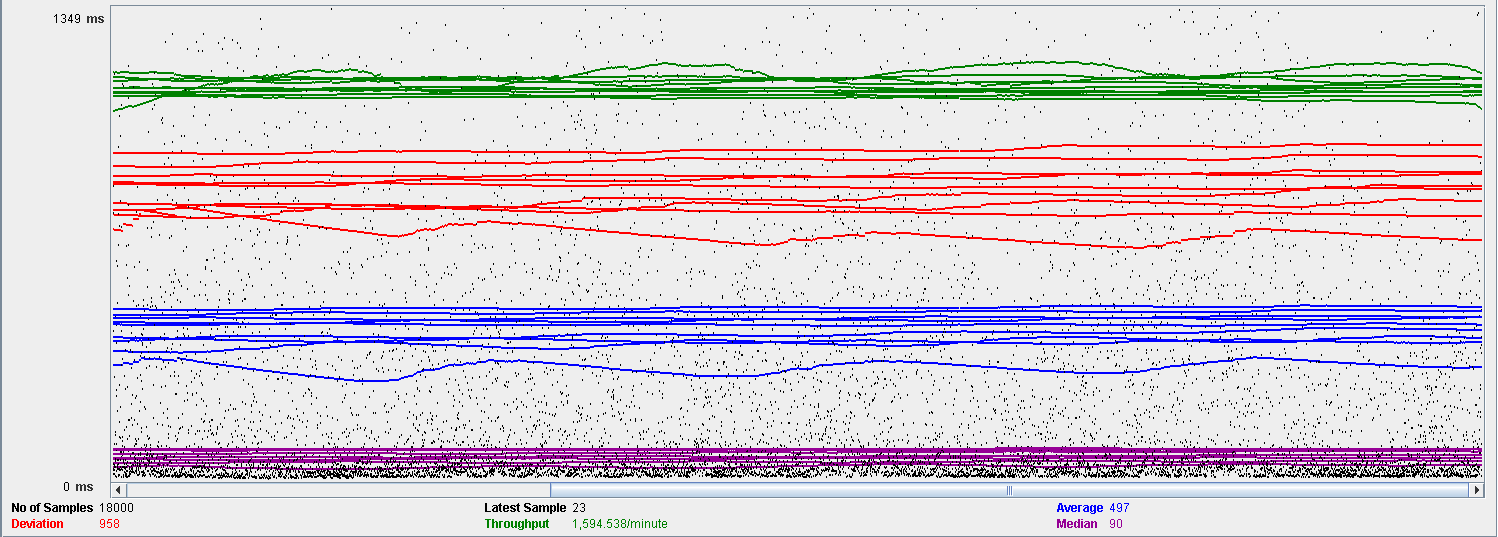




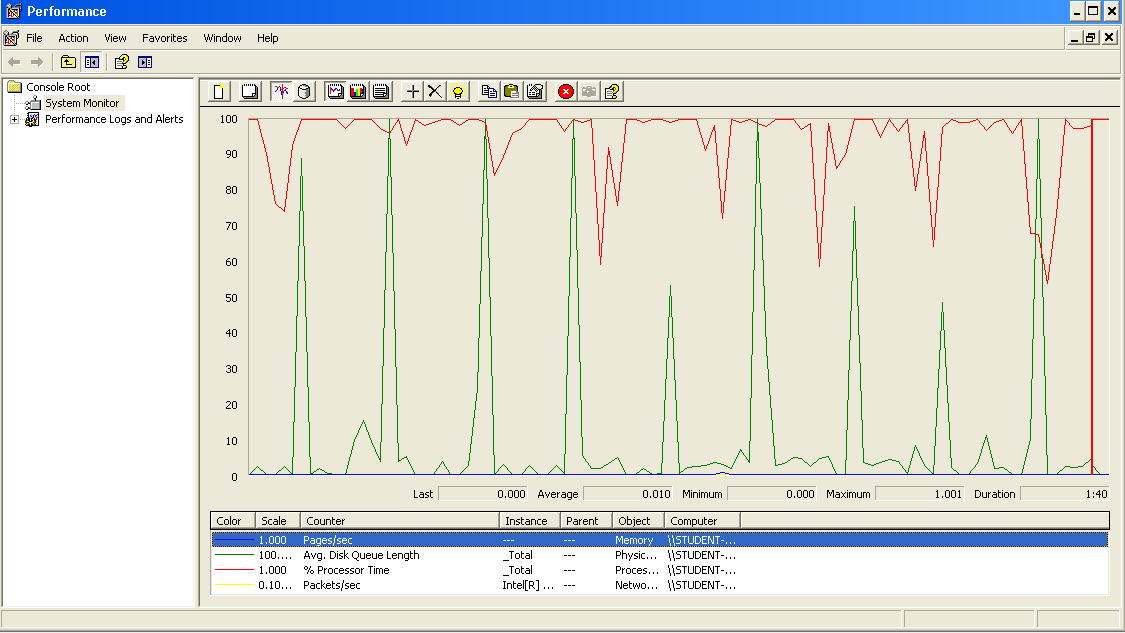
Thread properties:



Graph Results:



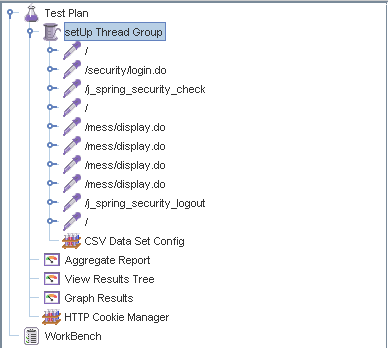
Performance Results:



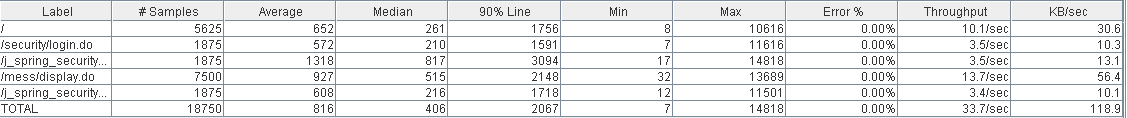
Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

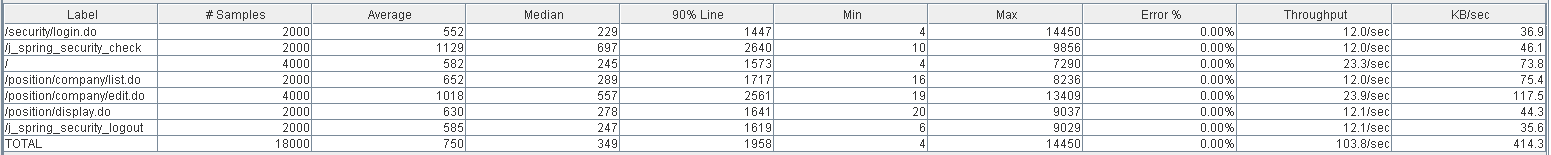
## Delete a message

Sequence:

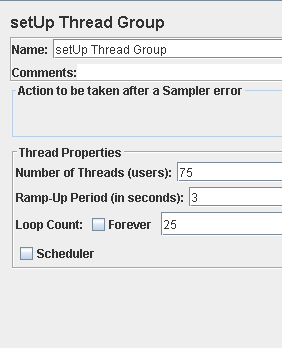


Aggregate Report:

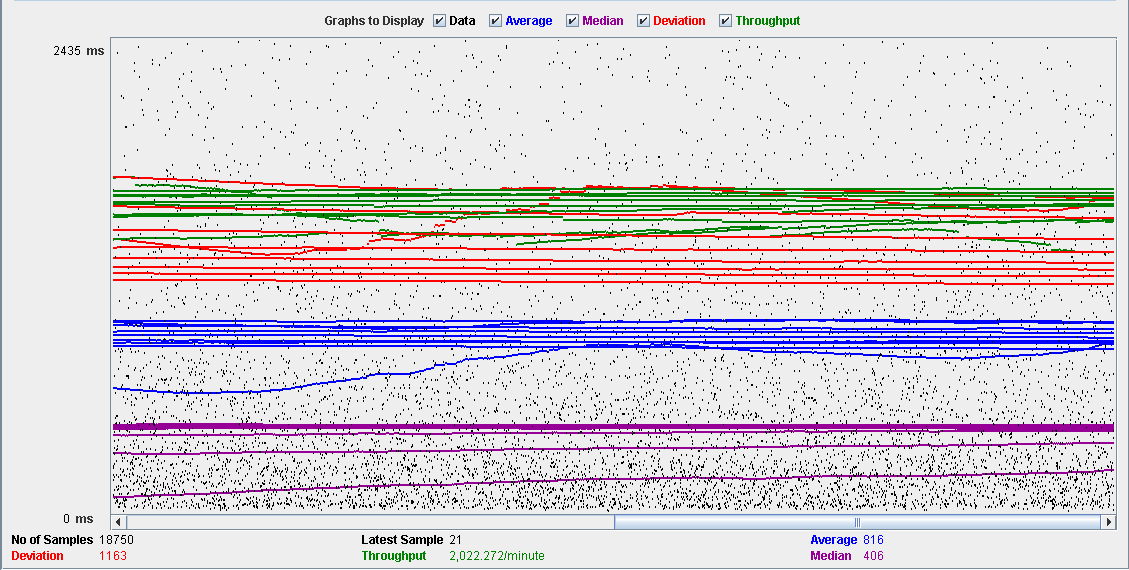




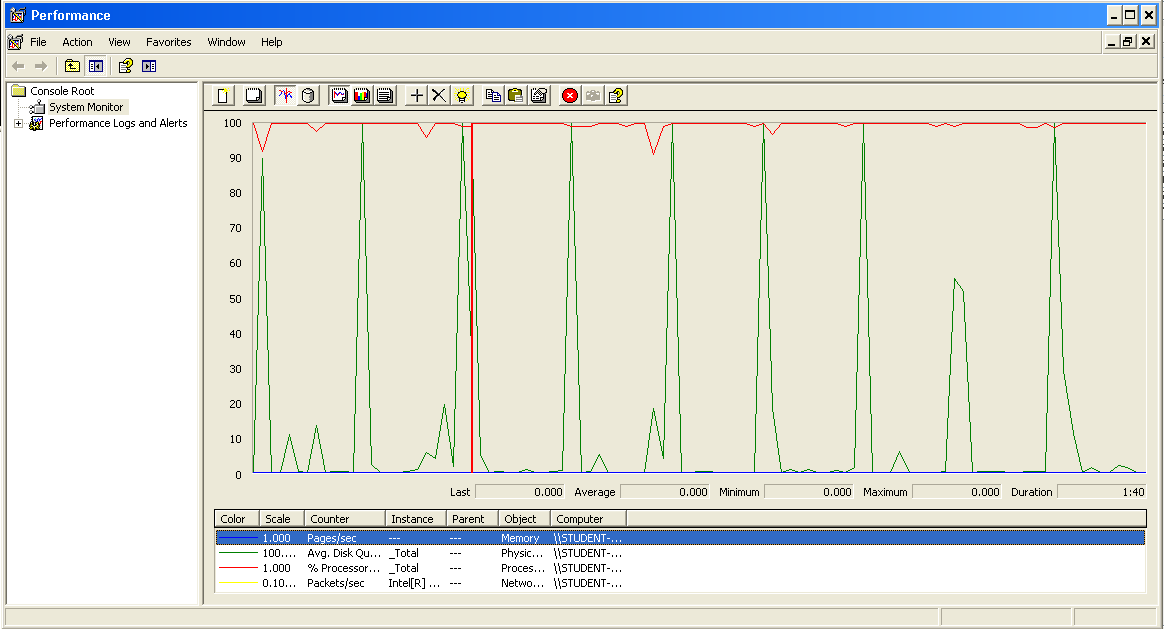
Thread properties:



Graph Results:



Performance Results:



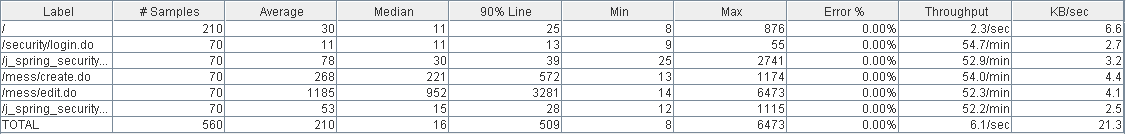
Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

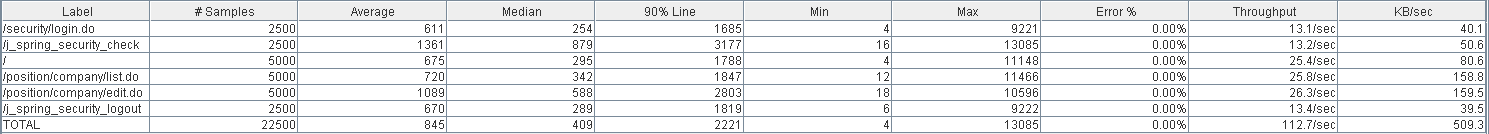
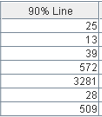
## Send a broadcast mess

Sequence:

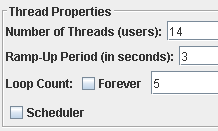


Aggregate Report:

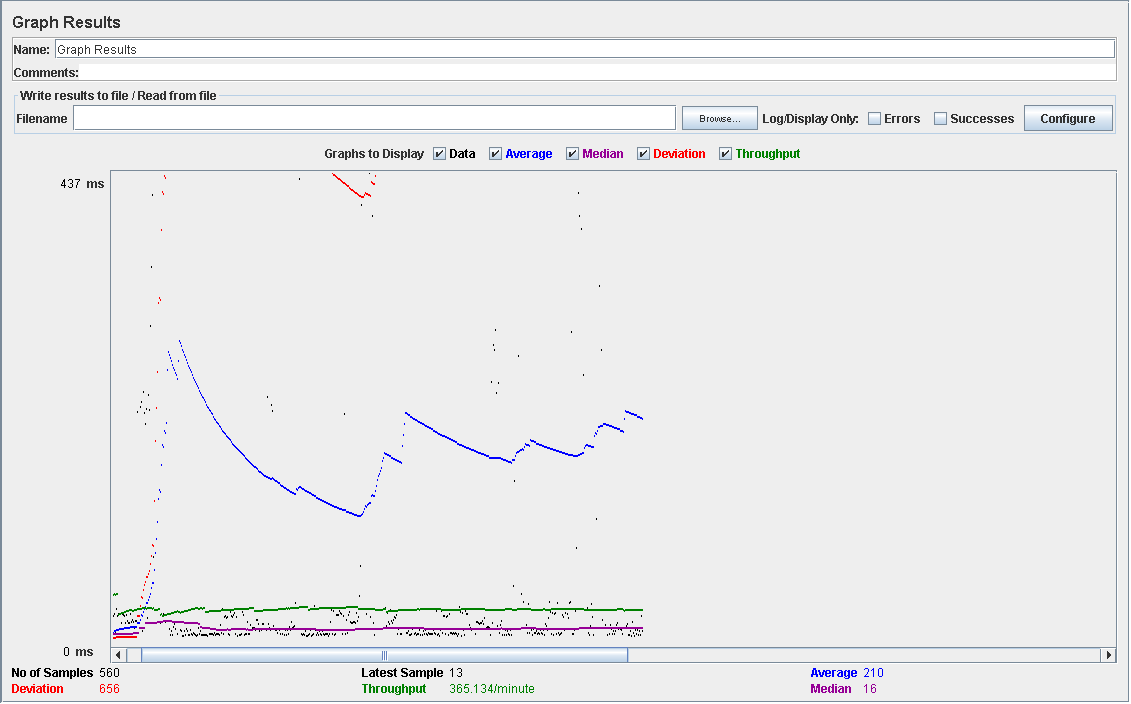




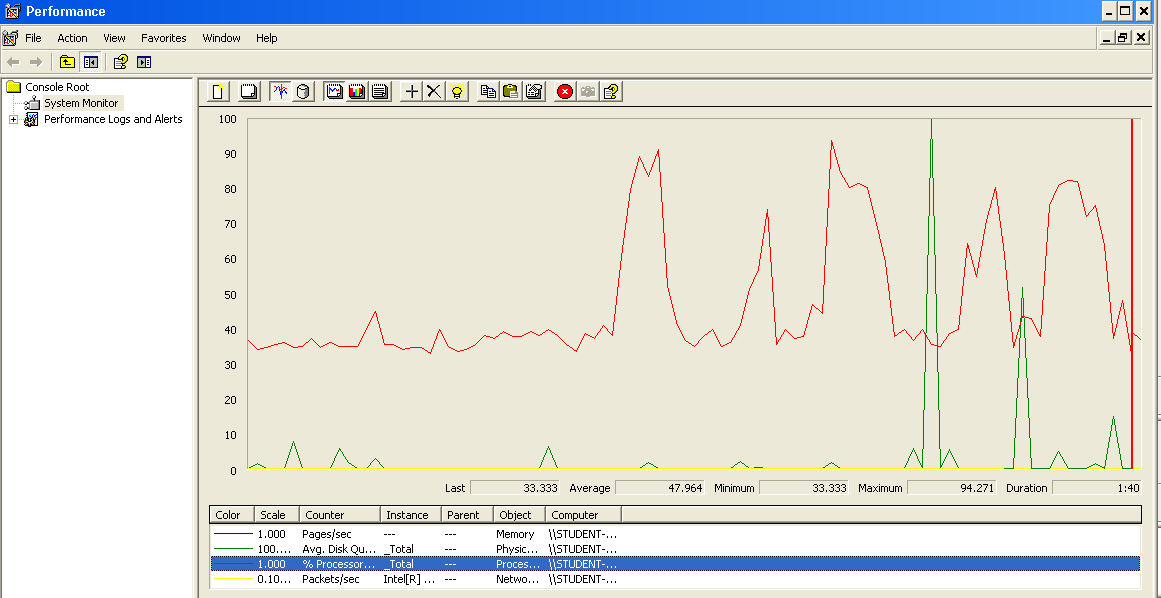
Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some peaks.

## Conclusion

The test was performed using:

CPU: i7 7700HQ (2 cores in the virtual machine)

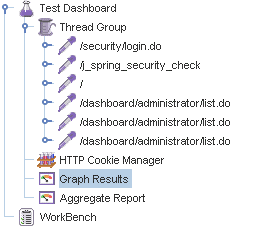
RAM: 2 GB (virtual machine)

For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users 14.

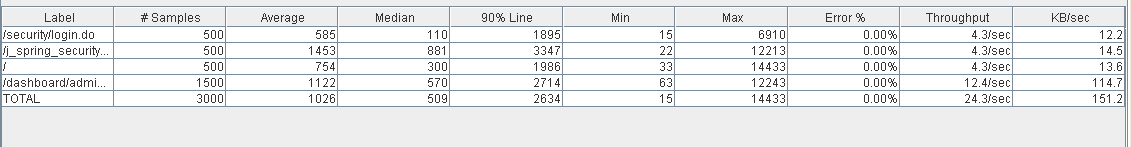
# Dashboard

## Display the dashboard and set the spammers

Sequence:

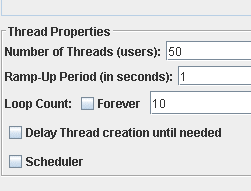


Aggregate Report:





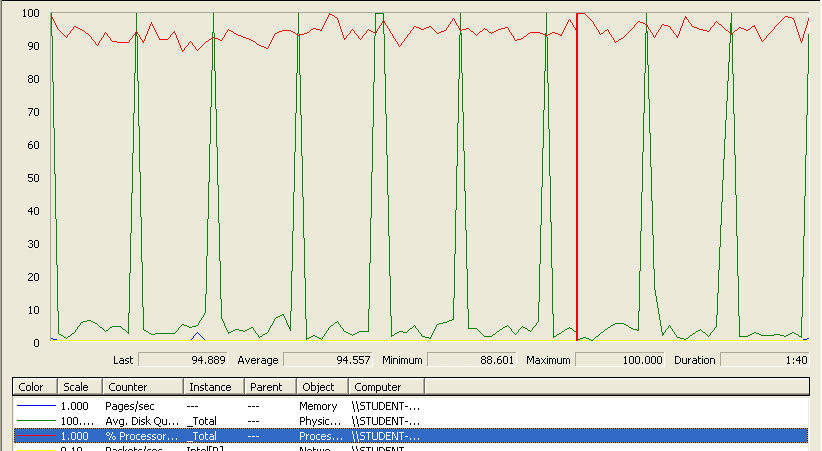
Thread properties:



Graph Results:



Performance Results:



The CPU was always at its limit while the disk usage showed many peaks.

## Conclusion

The test was performed using:

CPU: i5 2500K (2 cores in the virtual machine)

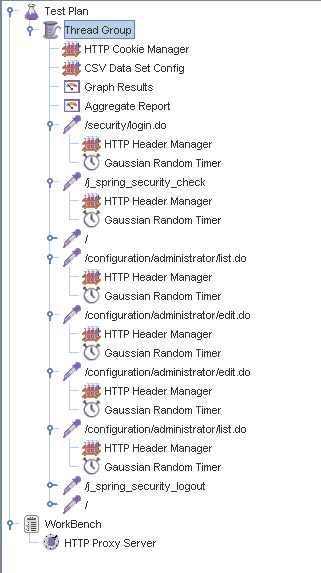
RAM: 2 GB (virtual machine)

For this use case we can say that the limitation occurs around 50 users when the time of respond begins to be very high.

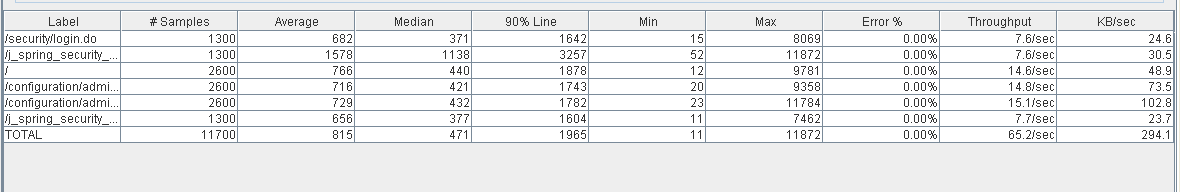
# Configuration

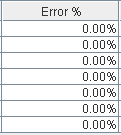
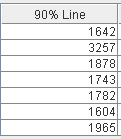
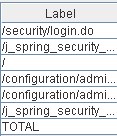
## Display the configuration and edit it

Sequence:

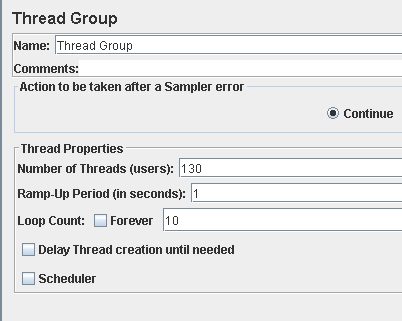


Aggregate Report:

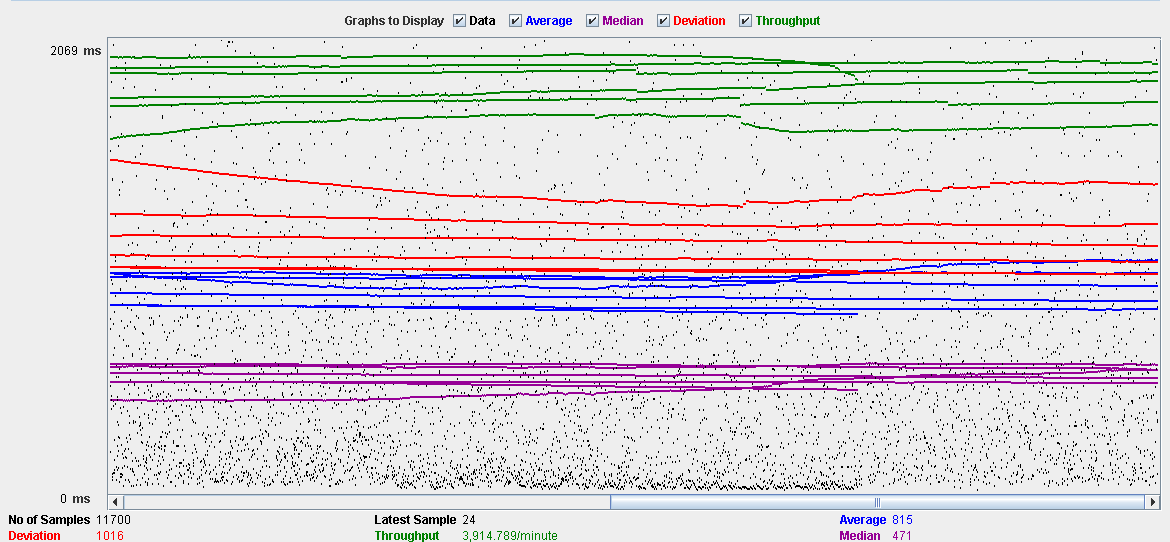




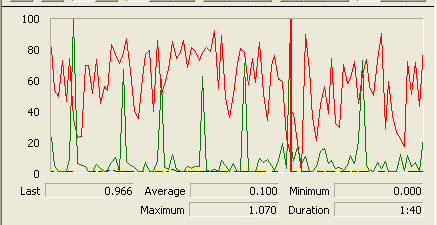
Thread properties:



Graph Results:



Performance Results:



The CPU was always at its limit while the disk usage showed many peaks.

## Conclusion

The test was performed using:

CPU: i5 2500K (2 cores in the virtual machine)

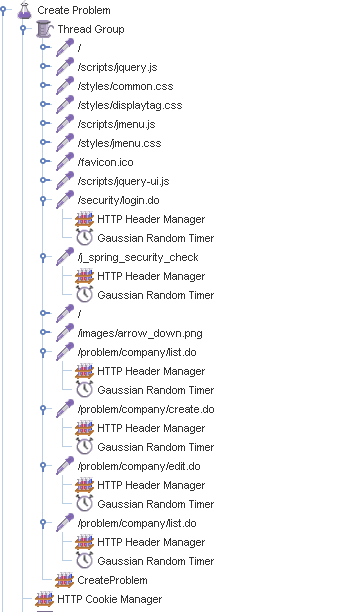
RAM: 2 GB (virtual machine)

For this use case we can say that the limitation occurs around 130 users when the time of respond begins to be very high.

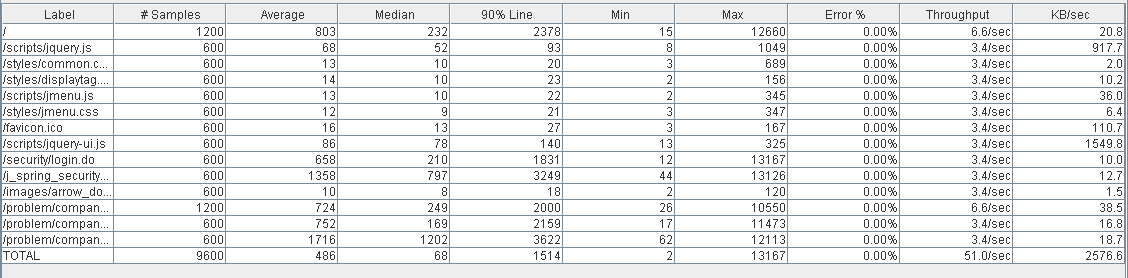
# Problem

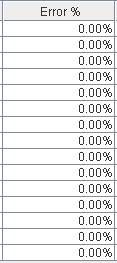
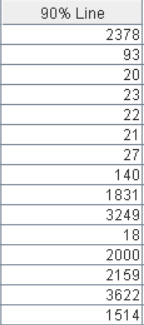
## Create

Sequence:

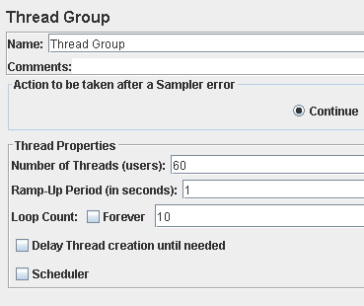


Aggregate Report:

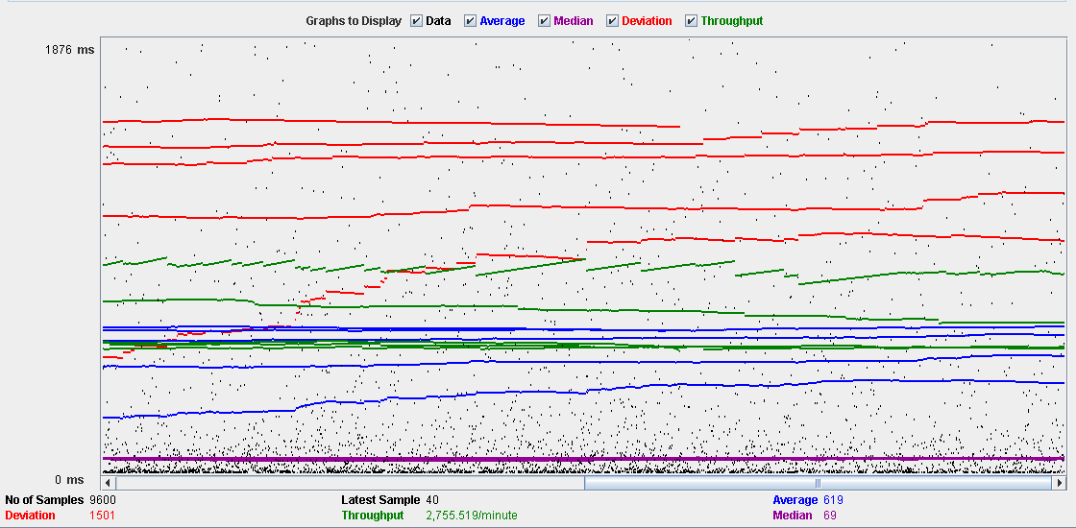




Thread properties:



Graph Results:



Performance Results:



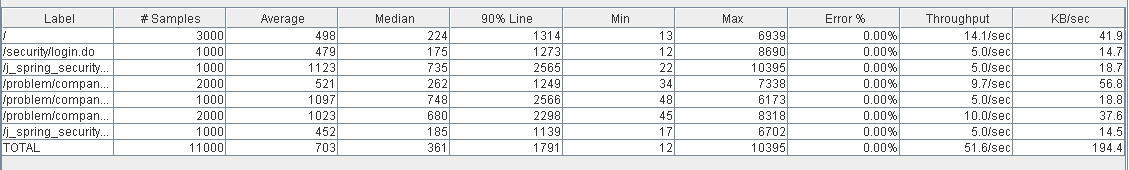
The CPU was always at its limit while the disk usage showed many peaks.

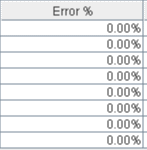
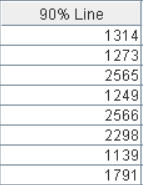
## Edit

Sequence:

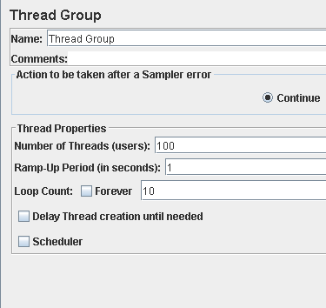


Aggregate Report:

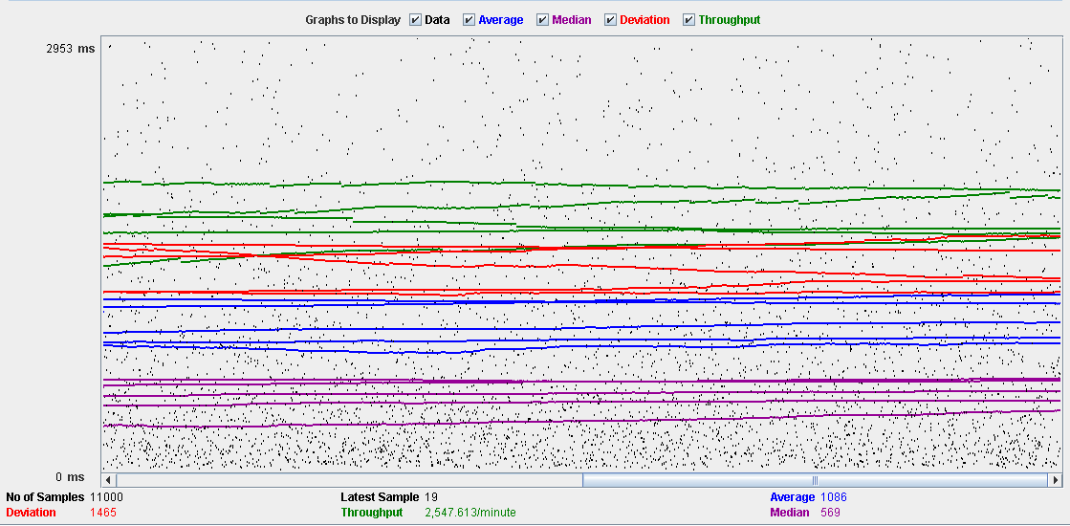




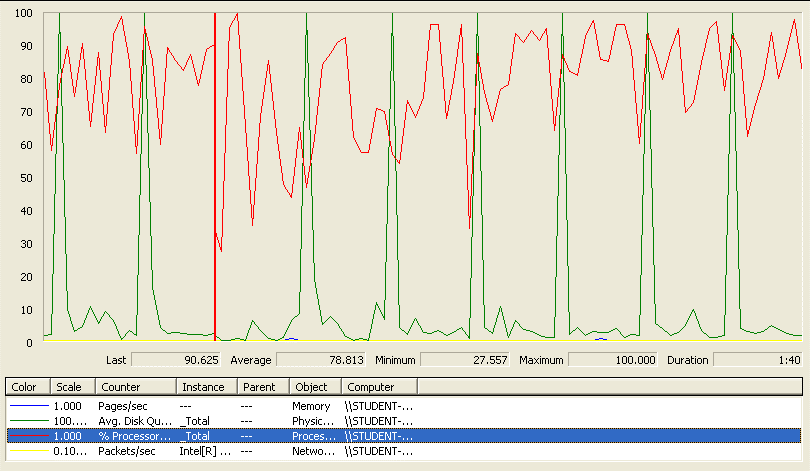
Thread properties:



Graph Results:



Performance Results:



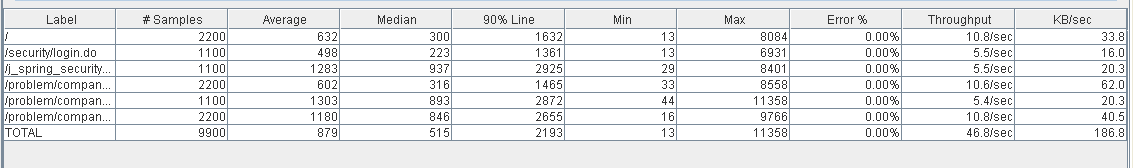
Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

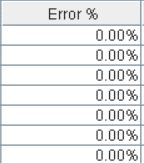
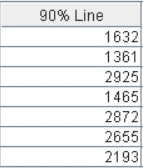
## Delete

Sequence:

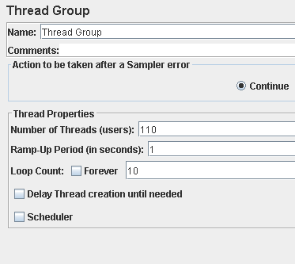


Aggregate Report:

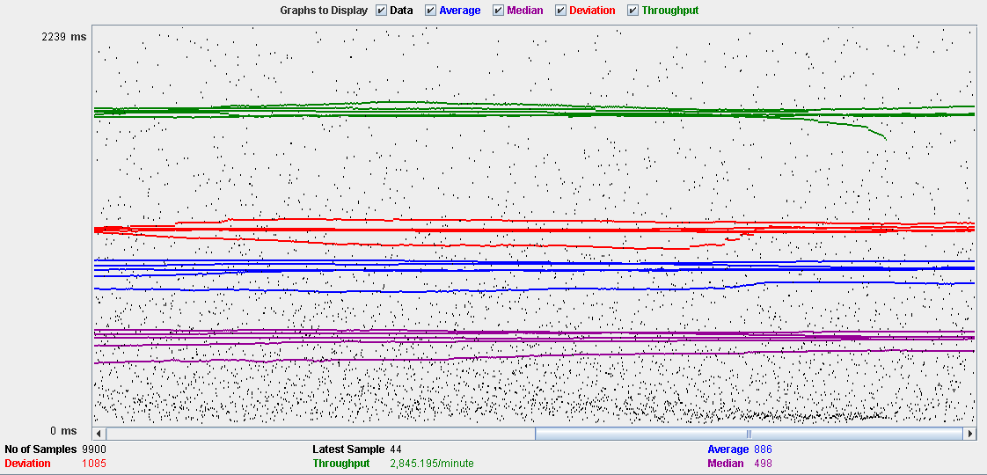




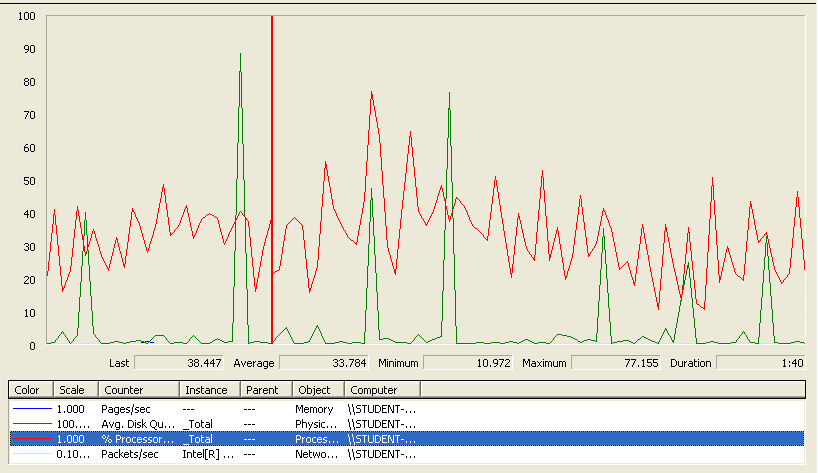
Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

## Conclusion

The test was performed using:

CPU: i5 2500k (2 cores in the virtual machine)

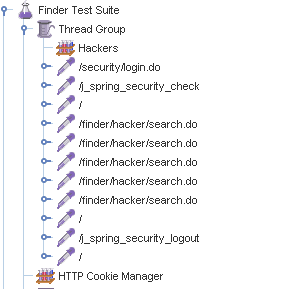
RAM: 2 GB (virtual machine)

For this use case we can say that the limitation occurs during the create process, being the maximum of concurrent users 60 because the time of respond begins to be very high.

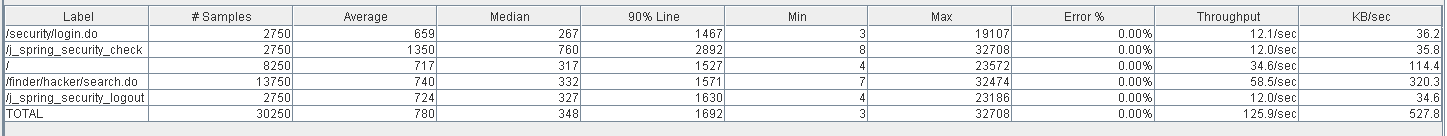
# Finder

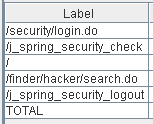
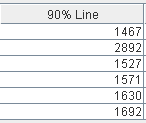
## Search and clear

Sequence:

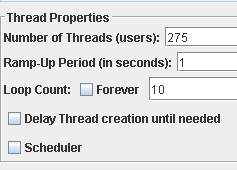


Aggregate Report:

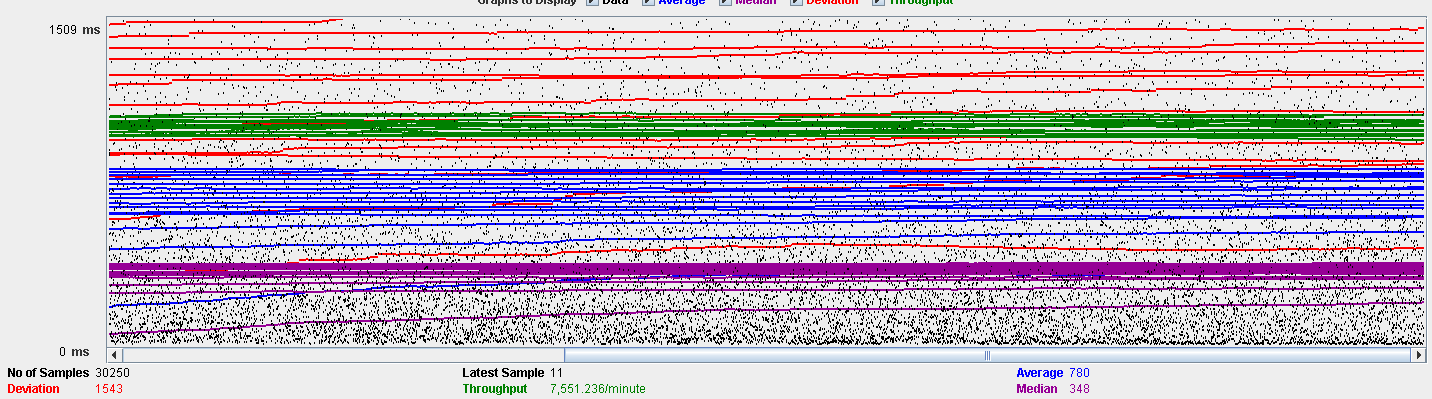


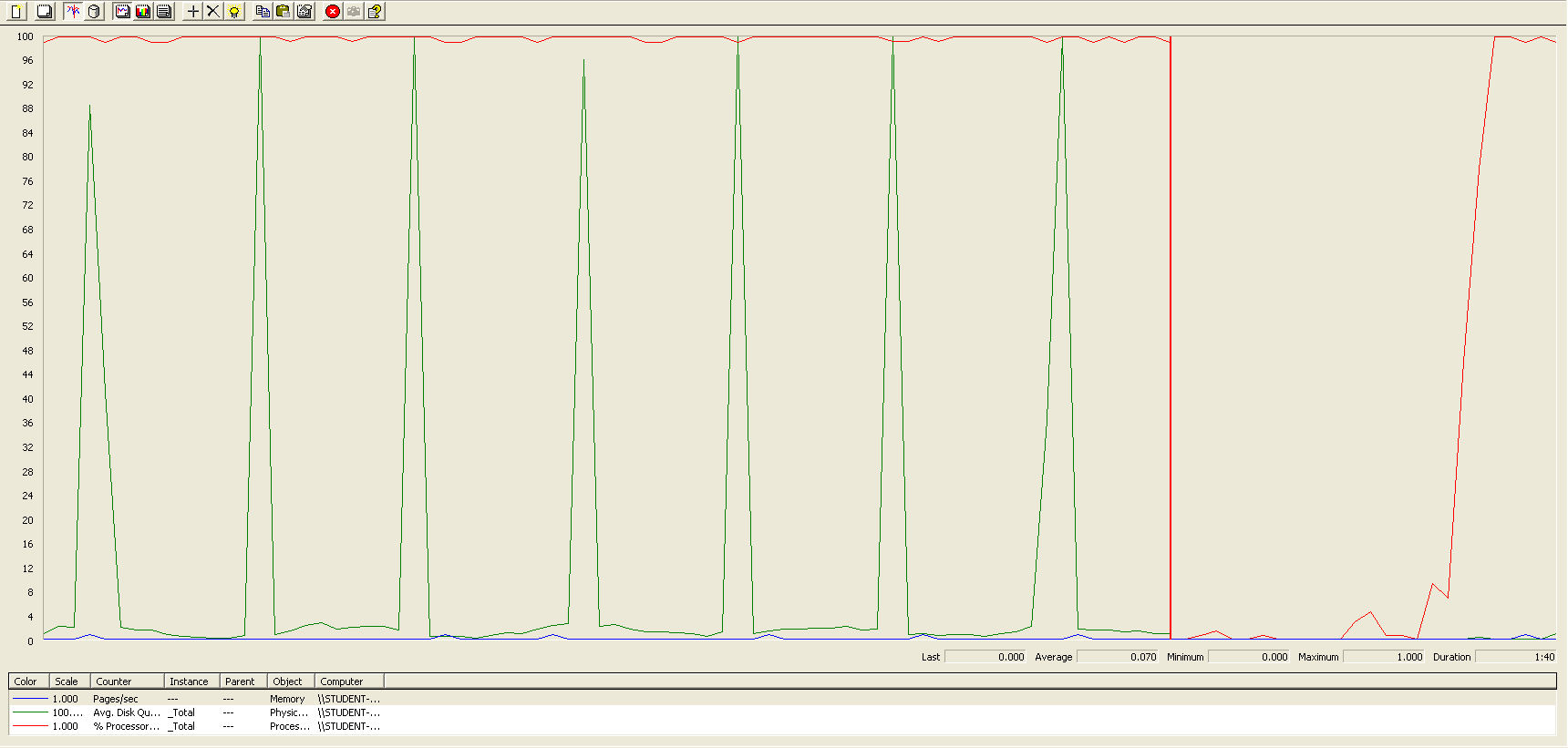
Thread properties:



Graph Results:



Performance Results:



The CPU was always at its limit while the disk usage showed many peaks.

## Conclusion

The test was performed using:

CPU: i7 7300hq (2 cores in the virtual machine)

RAM: 2 GB (virtual machine)

For this use case we can say that the limitation is with a maximum of 275 concurrent users.

# Curricula

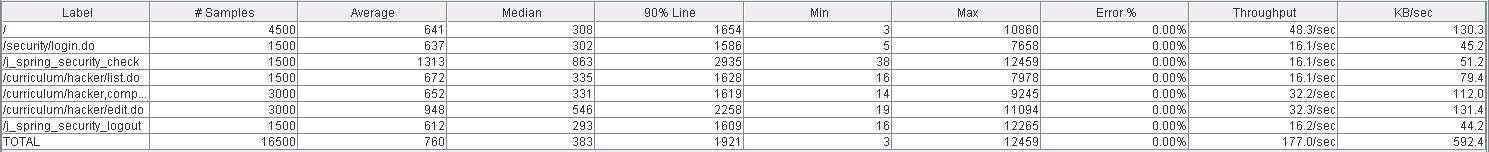
## Create a curriculum

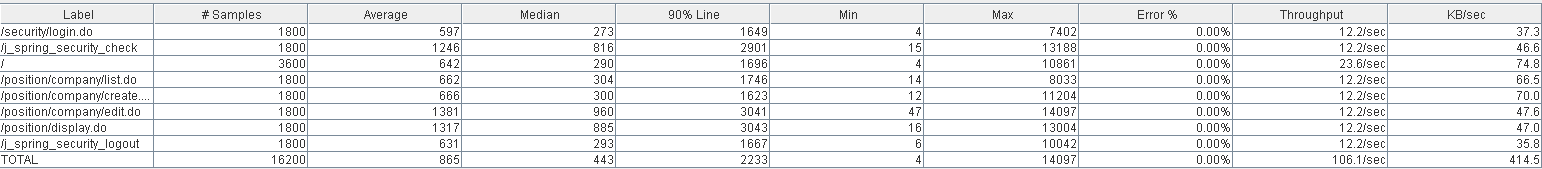
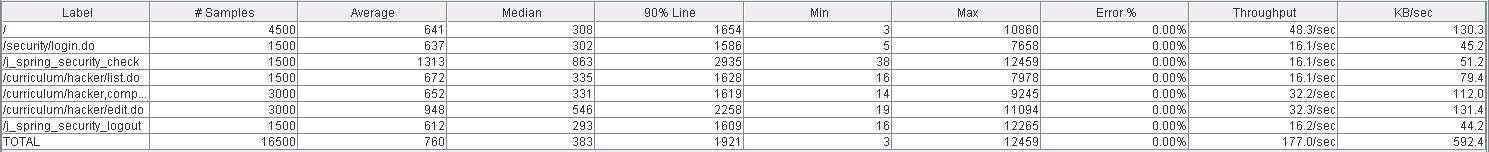
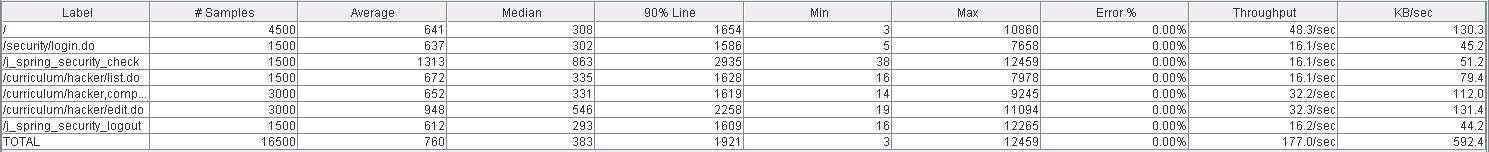
Sequence:

Imagen que contiene captura de pantalla

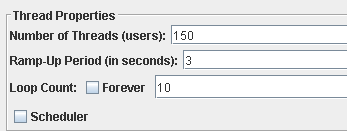
Descripción generada automáticamente

Aggregate Report:

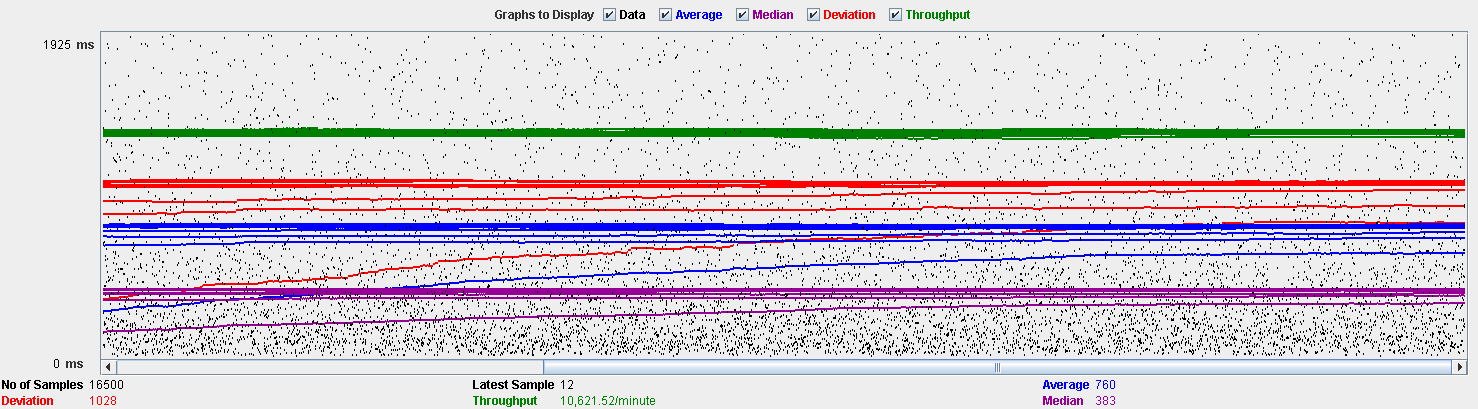




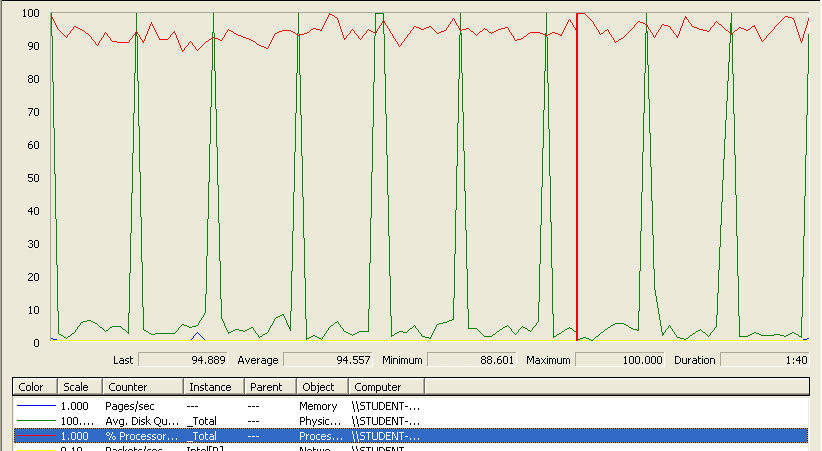
Thread properties:



Graph Results:



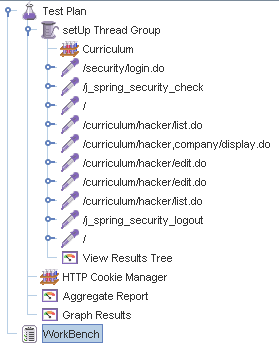
Performance Results:



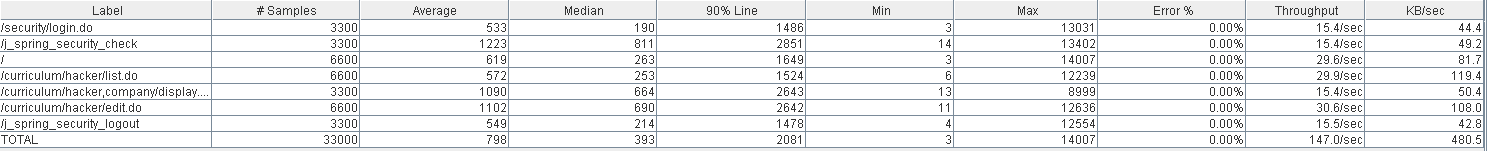
The CPU was always at its limit while the disk usage showed many peaks.

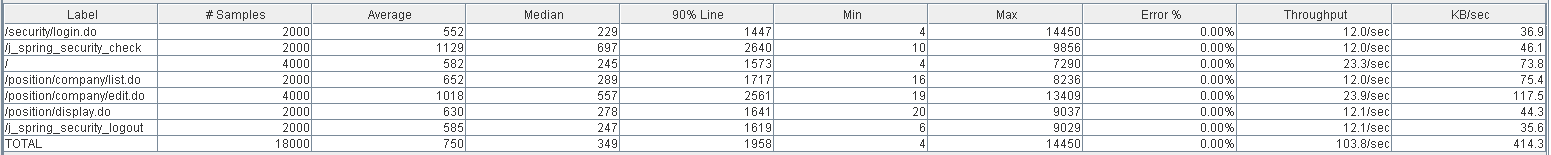
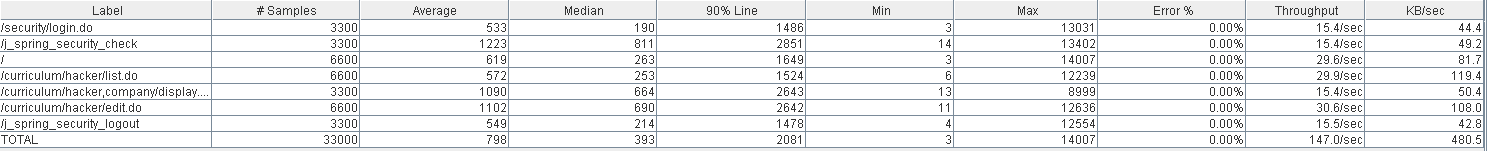
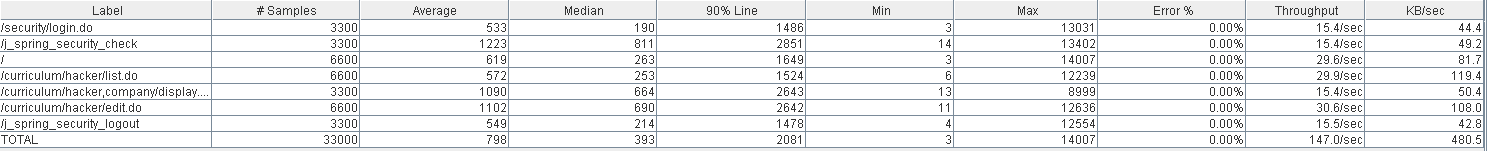
## Delete a curriculum

Sequence:

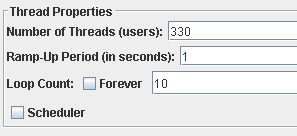


Aggregate Report:





Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some little peaks.

# Datas (Personal, Education, Position and Miscellaneous data)

## Create all datas

Sequence:

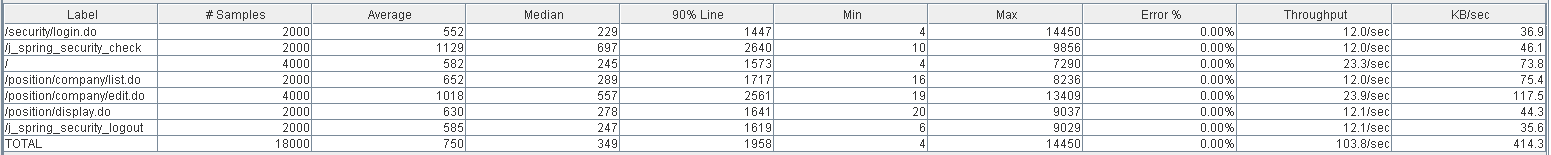
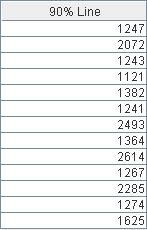
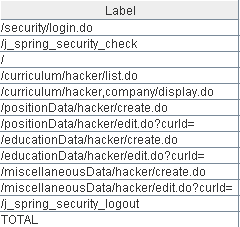
Imagen que contiene captura de pantalla

Descripción generada automáticamente

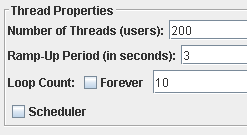
Aggregate Report:

Imagen que contiene captura de pantalla

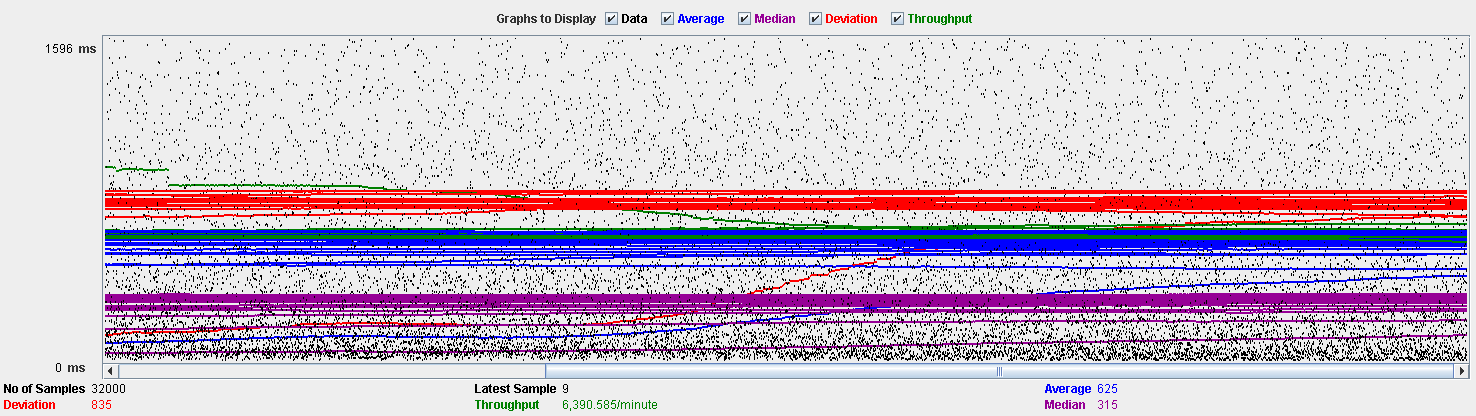
Descripción generada automáticamente



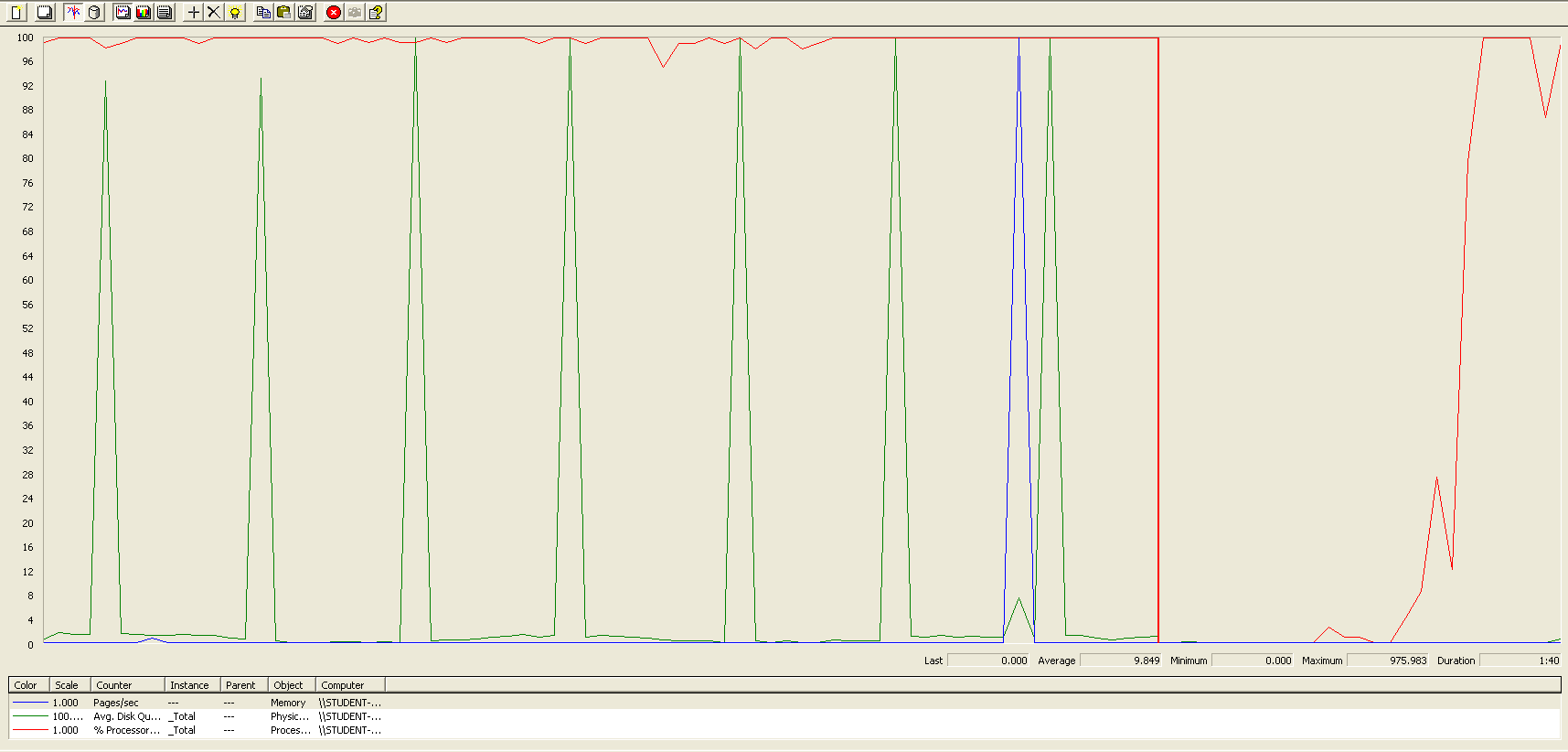
Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

## Edit a position data

Sequence:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

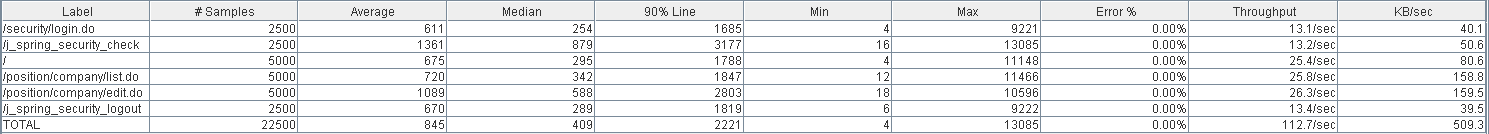
Aggregate Report:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Imagen que contiene captura de pantalla

Descripción generada automáticamenteImagen que contiene captura de pantalla

Descripción generada automáticamente

Thread properties:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Graph Results:



Performance Results:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Again we can see that the CPU is always being used while the disk usage shows some peaks.

## Edit a education data

Sequence:

Imagen que contiene captura de pantalla

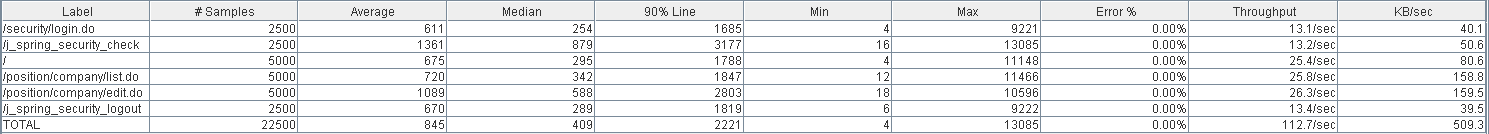
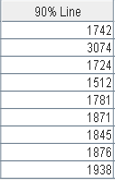
Descripción generada automáticamente

Aggregate Report:

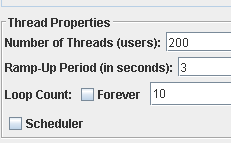
Imagen que contiene captura de pantalla

Descripción generada automáticamente

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Thread properties:



Graph Results:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Performance Results:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Again we can see that the CPU is always being used while the disk usage shows some peaks.

## Edit a miscellaneous data

Sequence:

Imagen que contiene captura de pantalla

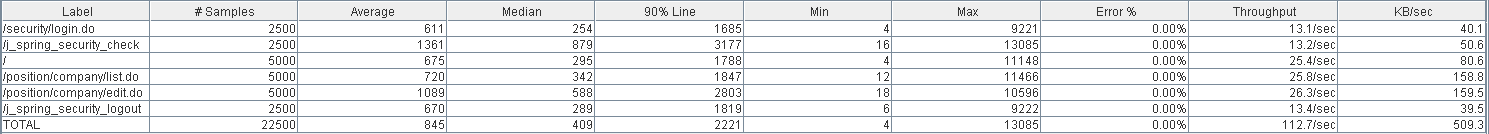
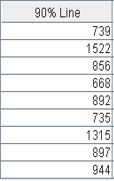
Descripción generada automáticamente

Aggregate Report:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Thread properties:

Imagen que contiene captura de pantalla

Descripción generada automáticamente

Graph Results:

Imagen que contiene mapa, texto

Descripción generada automáticamente

Performance Results:

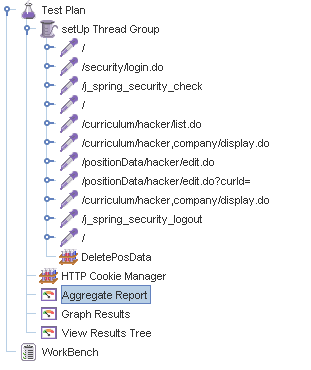
Imagen que contiene captura de pantalla

Descripción generada automáticamente

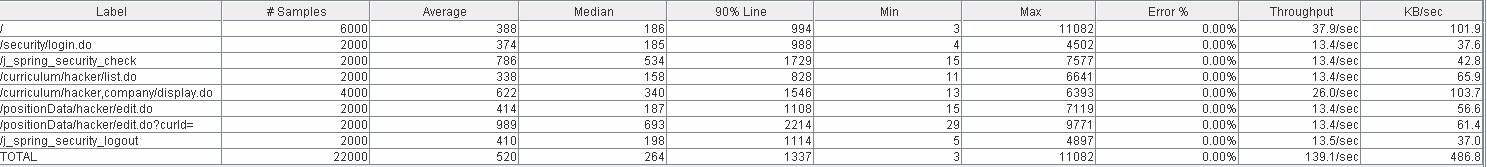
Again we can see that the CPU is always being used while the disk usage shows some peaks.

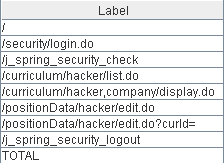
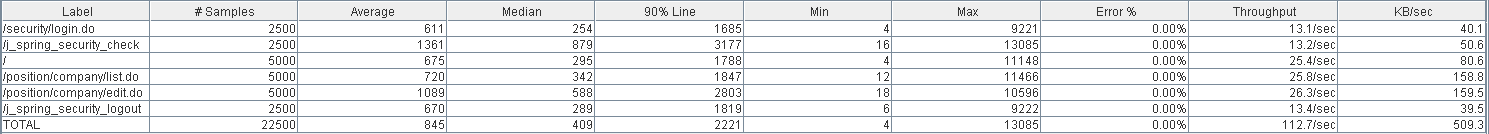
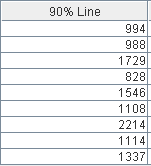
## Delete a position data

Sequence:

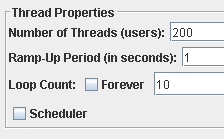


Aggregate Report:

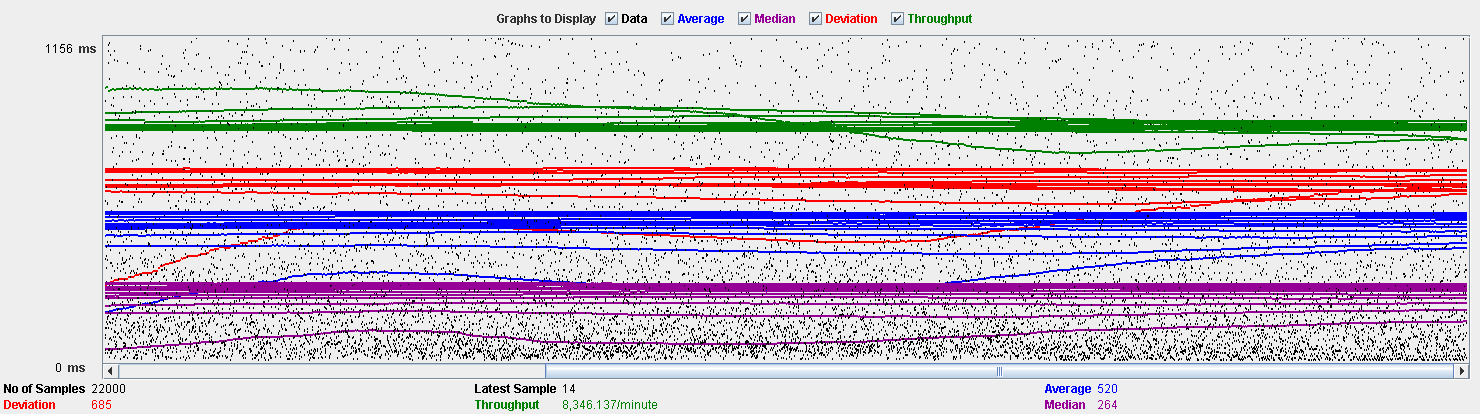


Thread properties:



Graph Results:



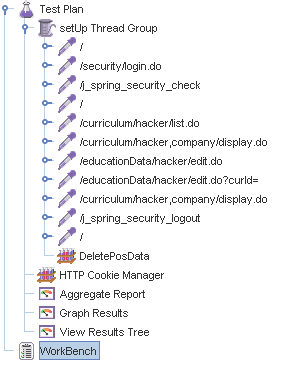
Performance Results:



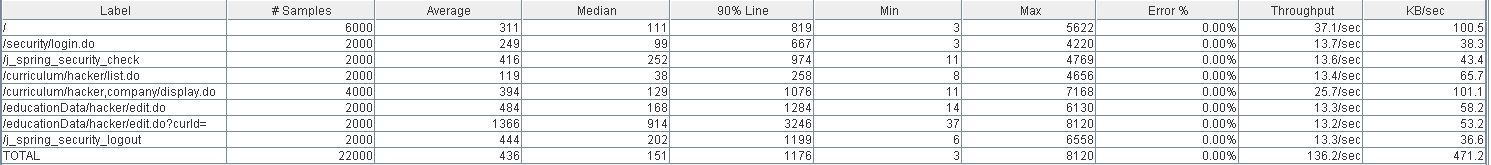
Again we can see that the CPU is always being used while the disk usage shows some peaks.

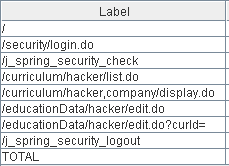
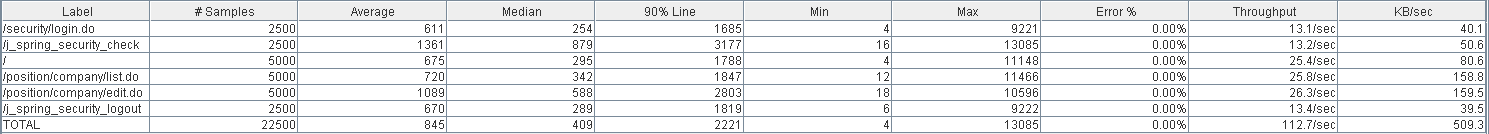
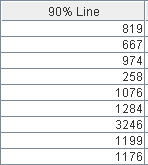
## Delete a education data

Sequence:

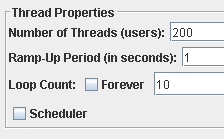


Aggregate Report:

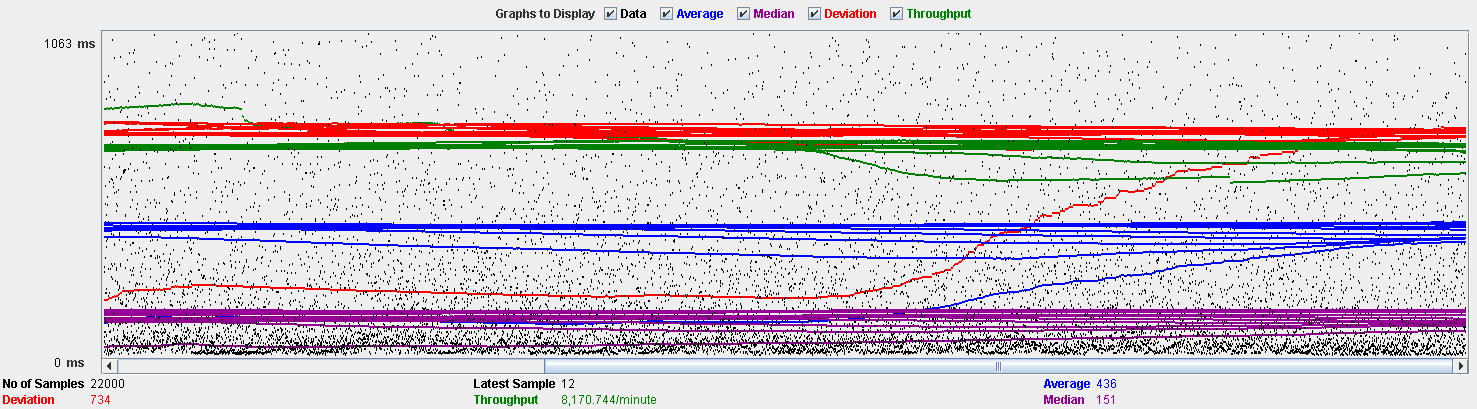


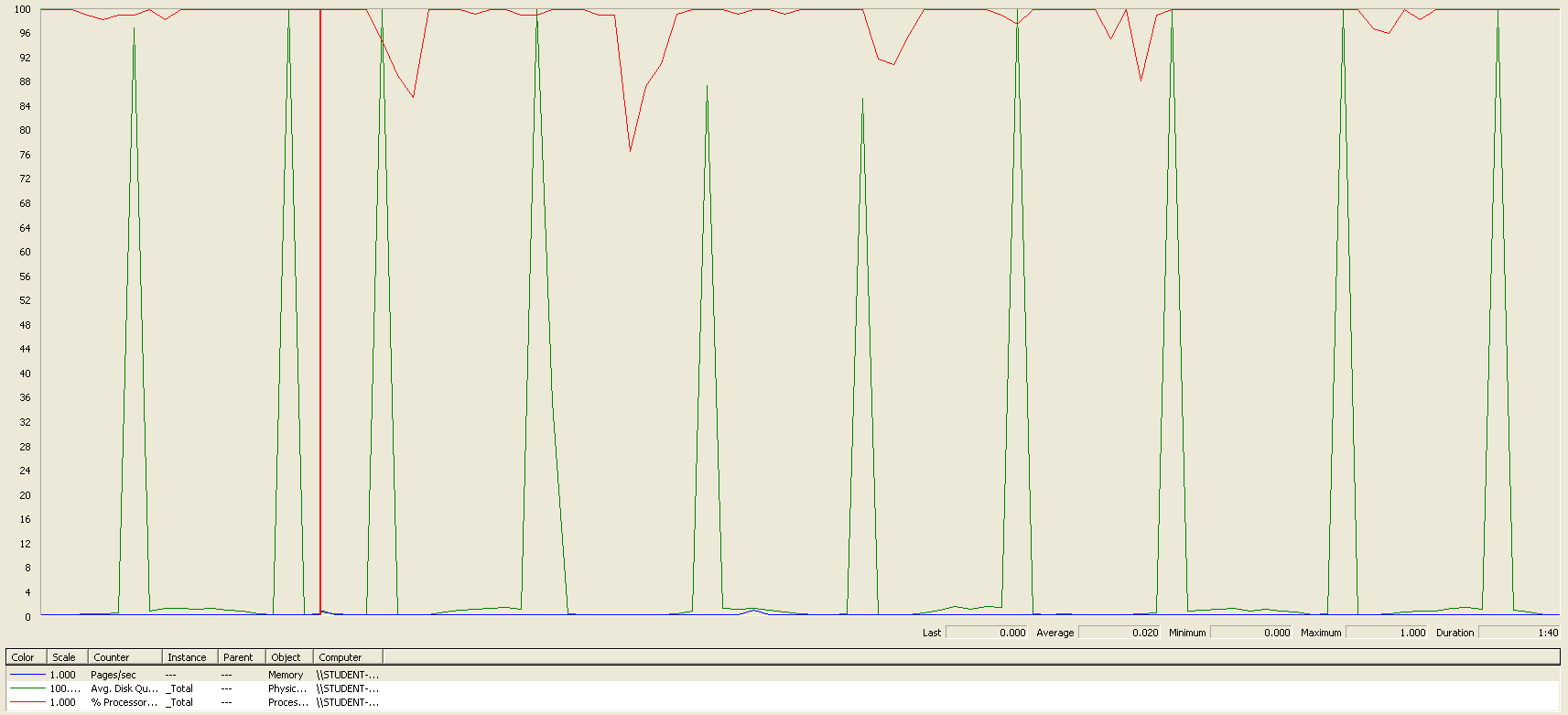
Thread properties:



Graph Results:



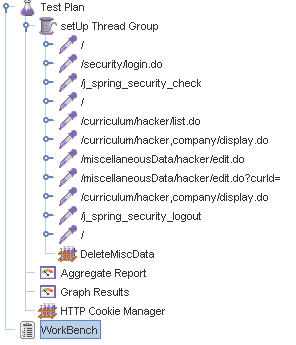
Performance Results:



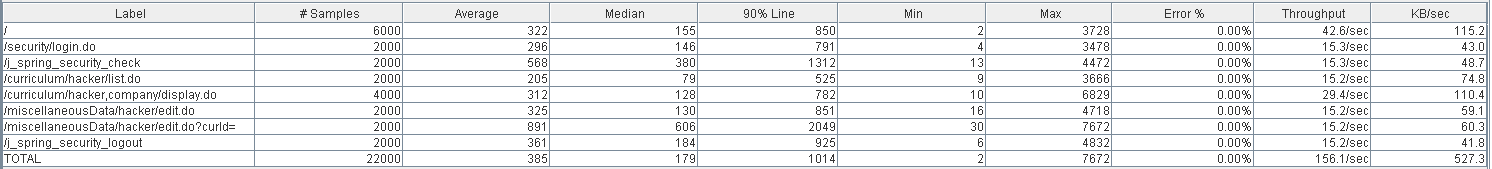
Again we can see that the CPU is always being used while the disk usage shows some peaks.

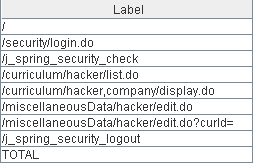
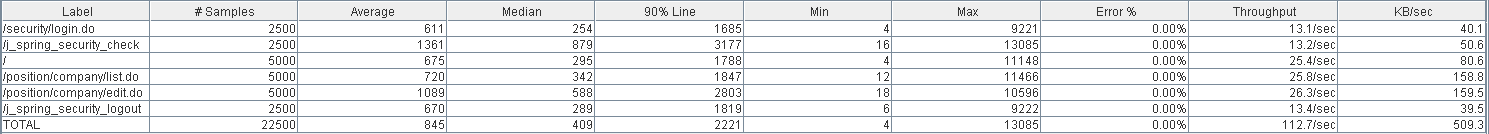
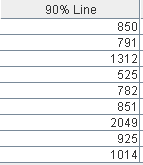
## Delete a miscellaneous data

Sequence:

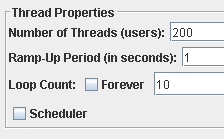


Aggregate Report:

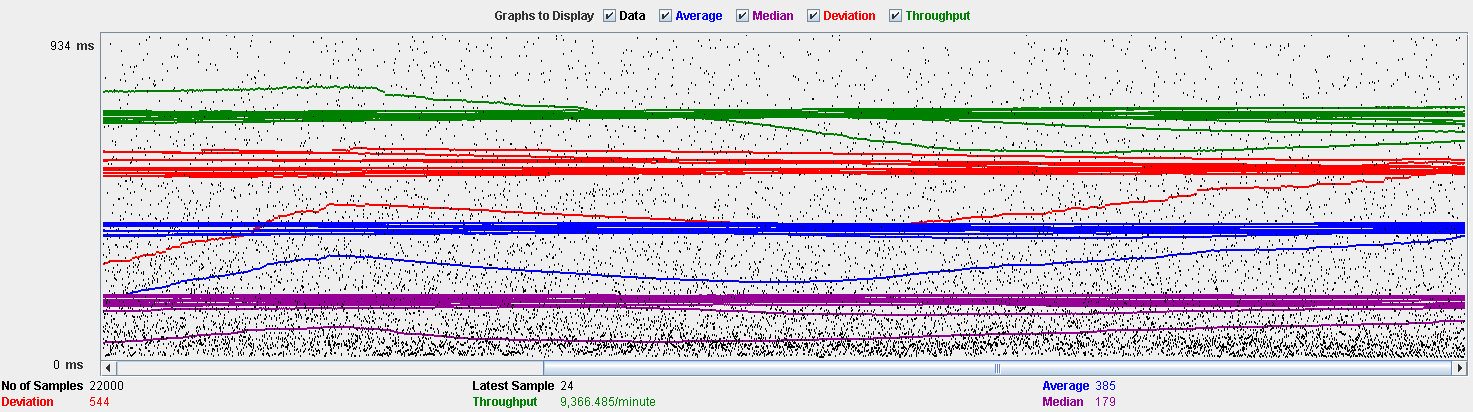


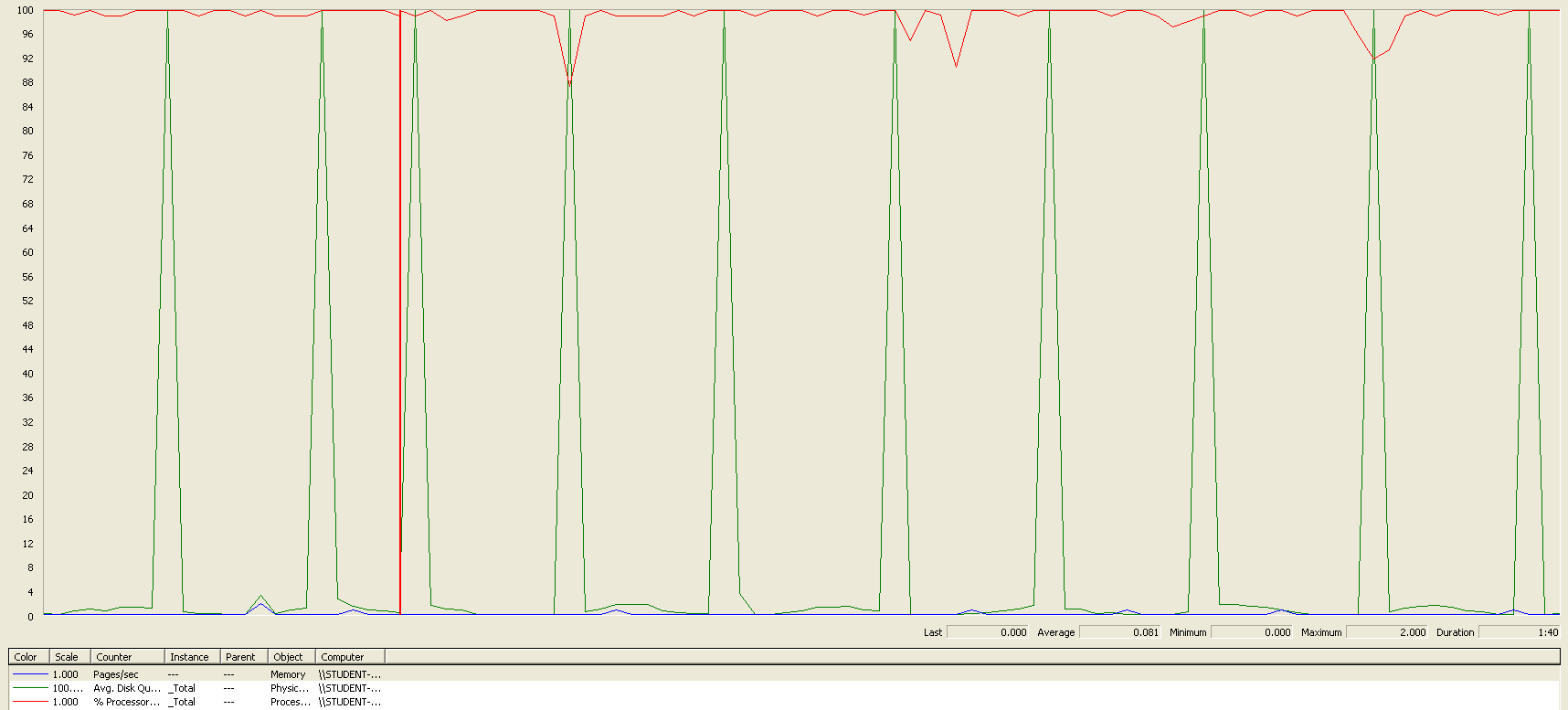
Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some peaks.

## Conclusion

The test was performed using:

CPU: i7 6700hq (2 cores in the virtual machine)

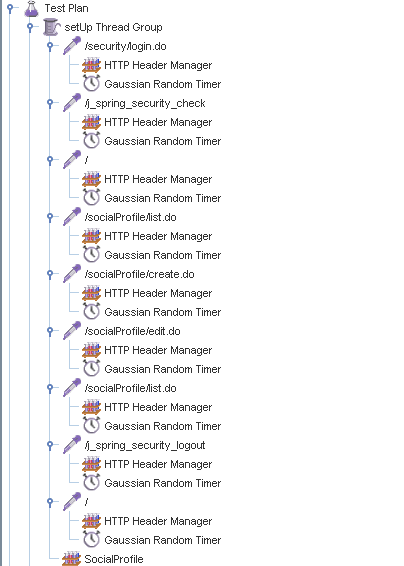
RAM: 4 GB (virtual machine)

For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users 180.

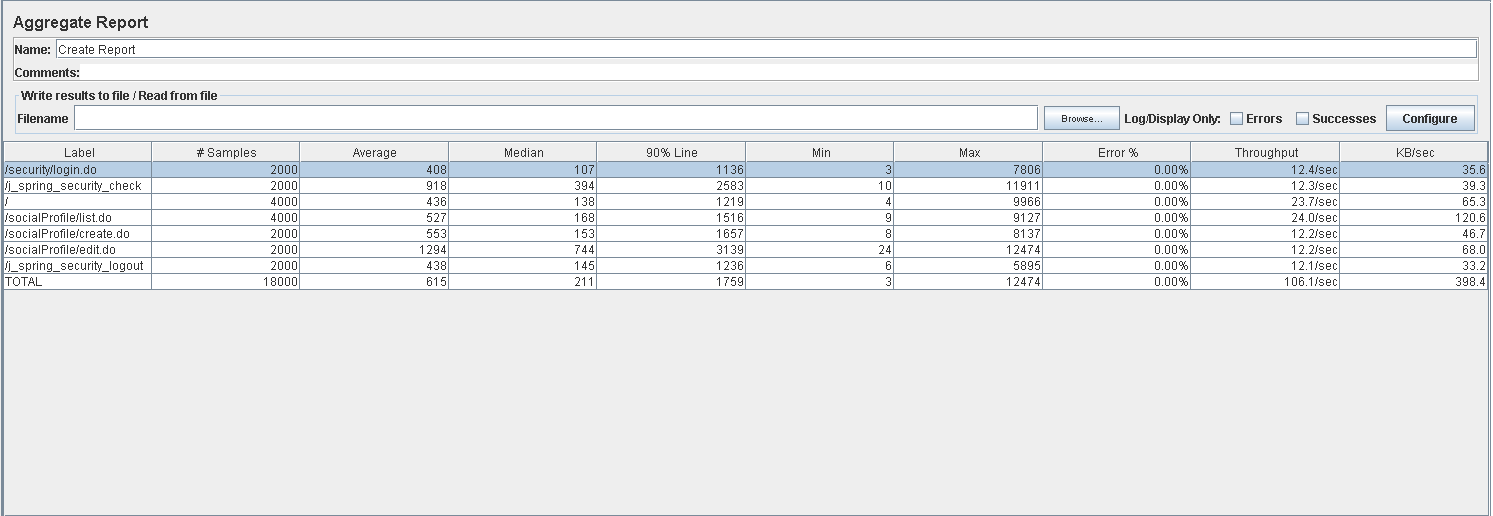
# Social profile

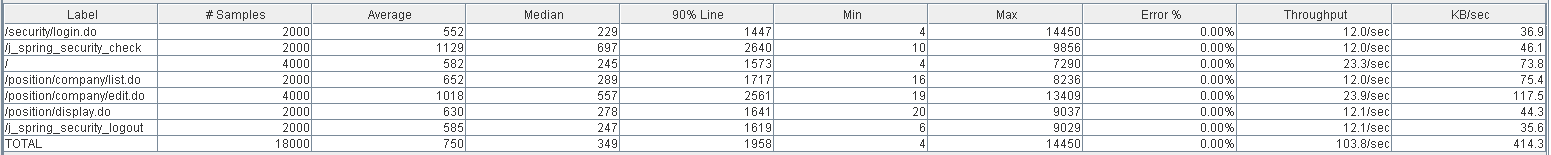
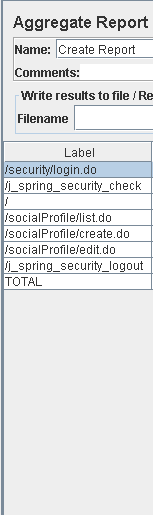
## Create

Sequence:

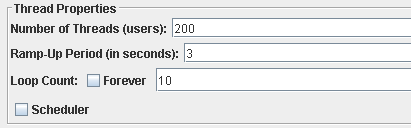


Aggregate Report:

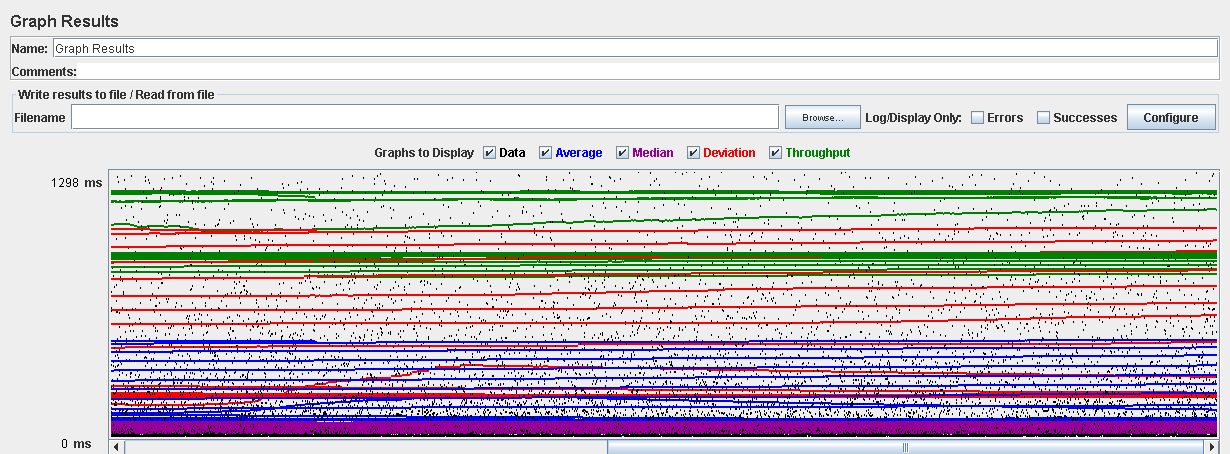




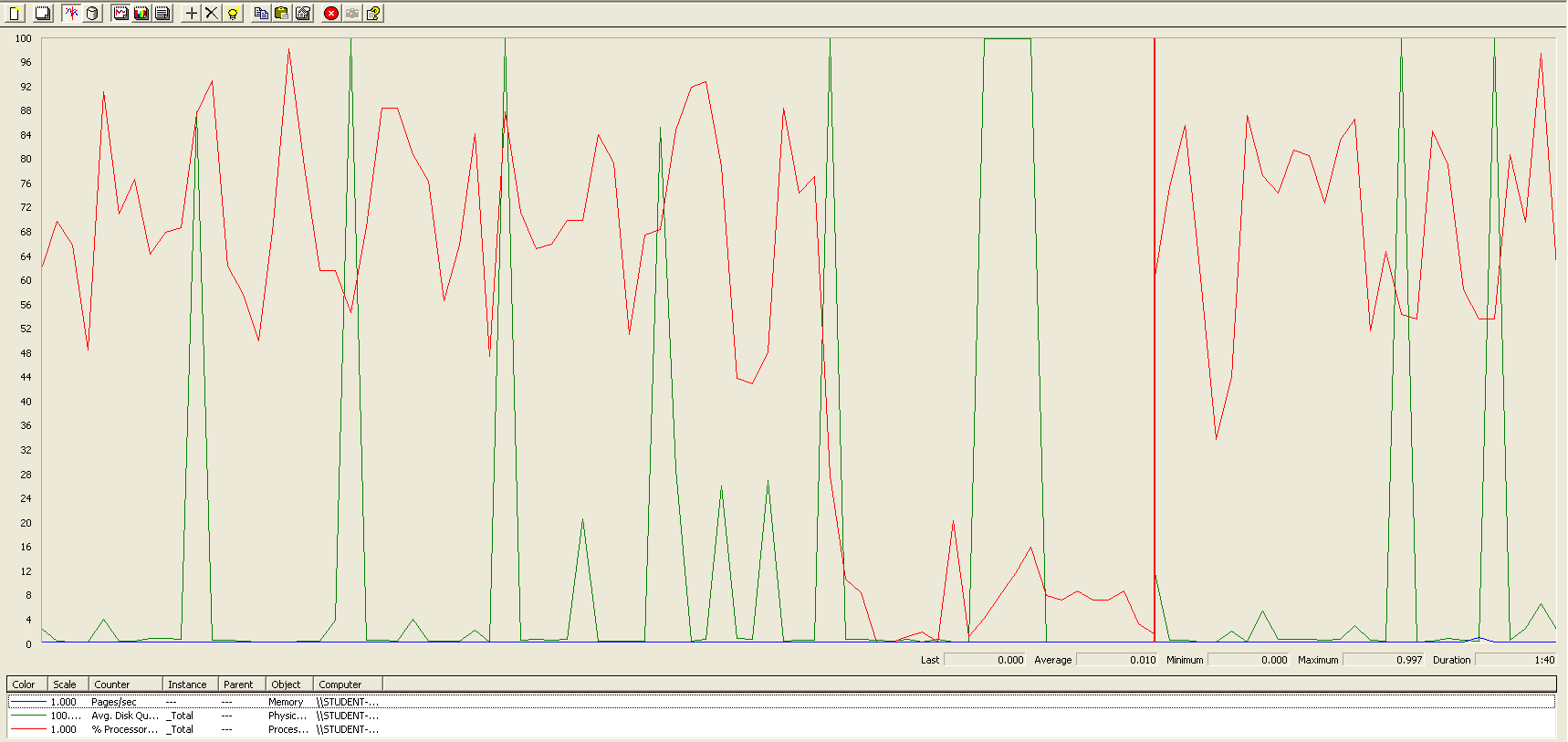
Thread properties:



Graph Results:



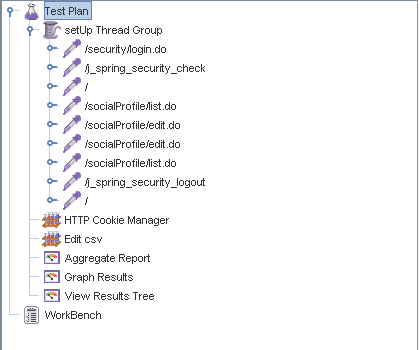
Performance Results:



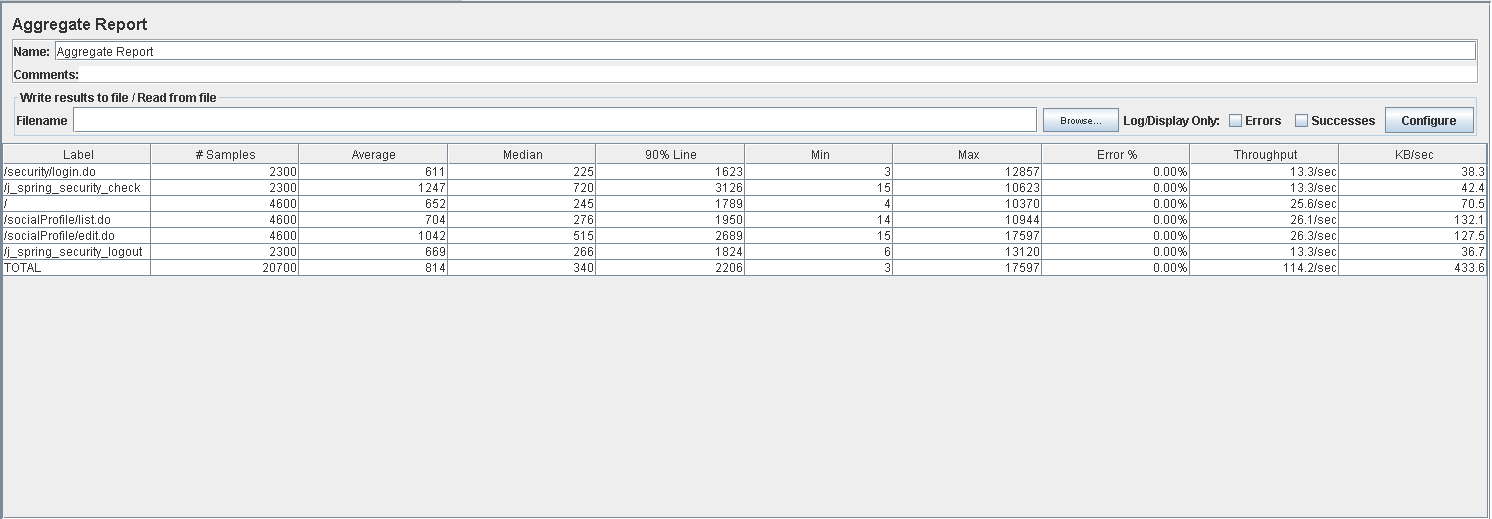
The CPU was always at its limit while the disk usage showed many peaks.

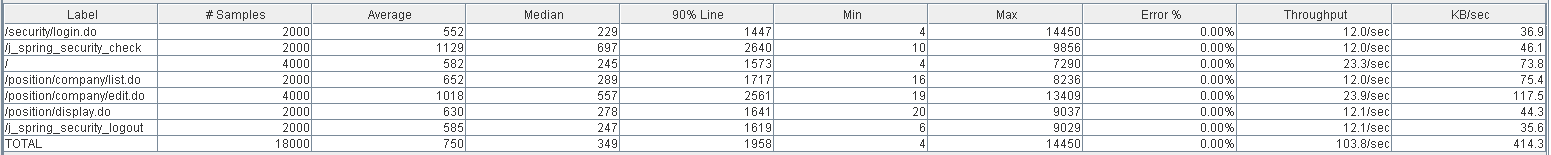
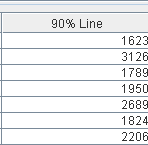
## Edit

Sequence:

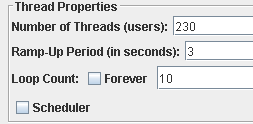


Aggregate Report:

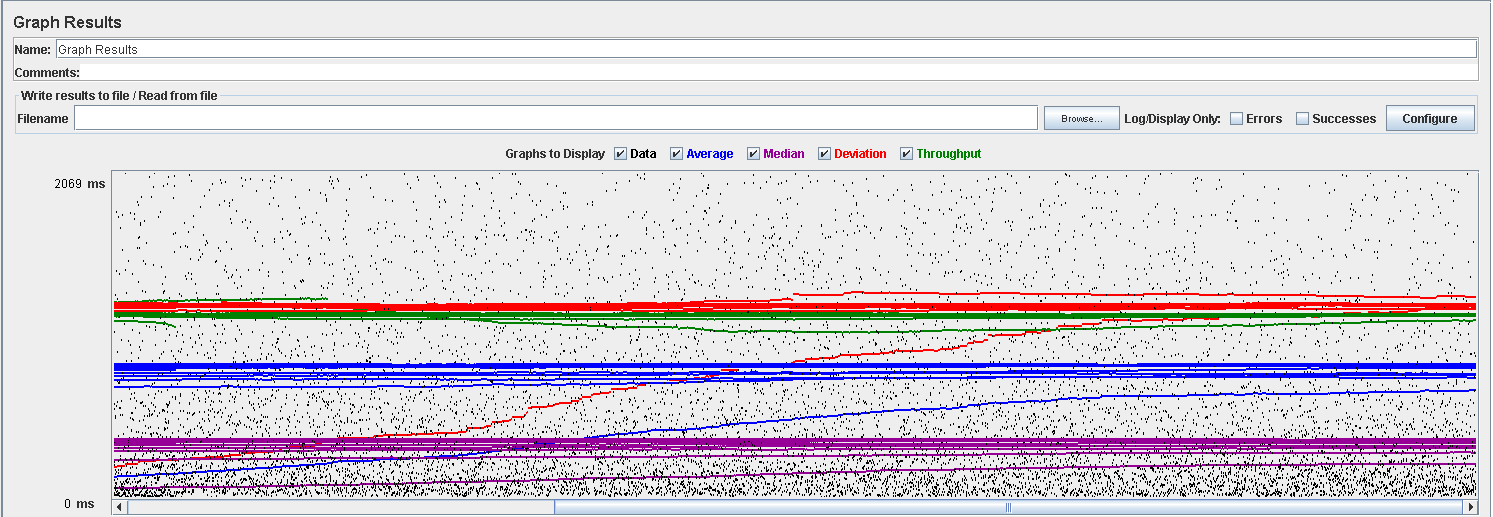




Thread properties:



Graph Results:



Performance Results:

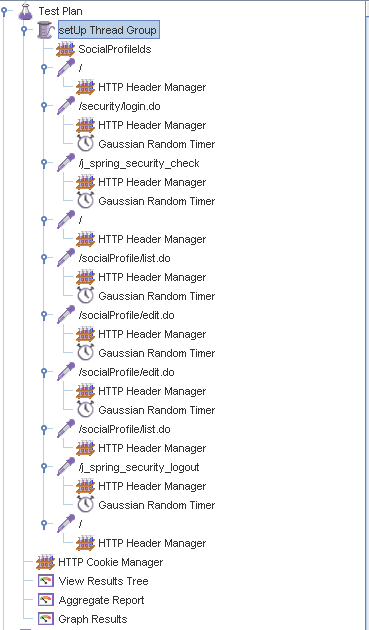


Again we can see that the CPU is always being used while the disk usage shows different peaks at times.

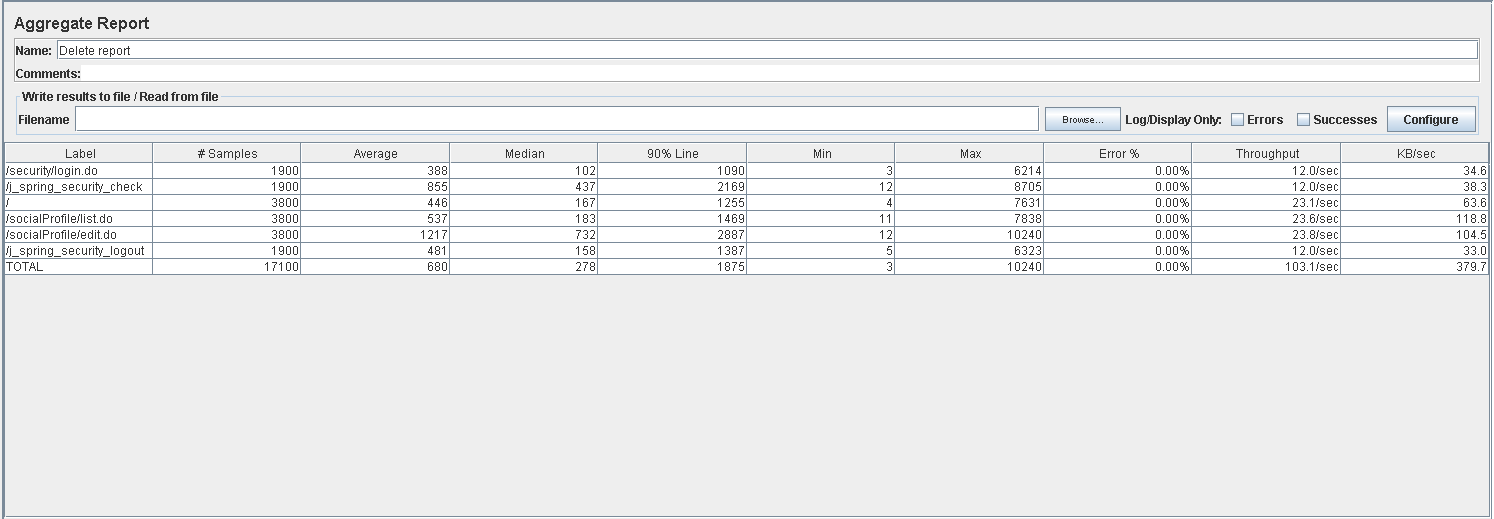
## 

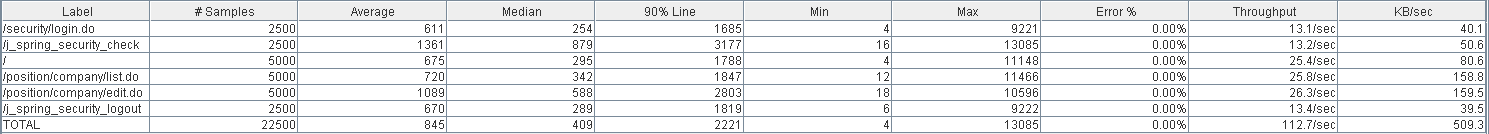
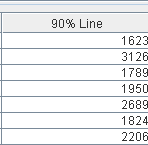
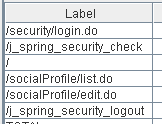
## Delete

Sequence:

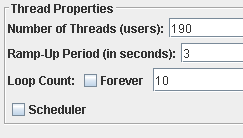


Aggregate Report:

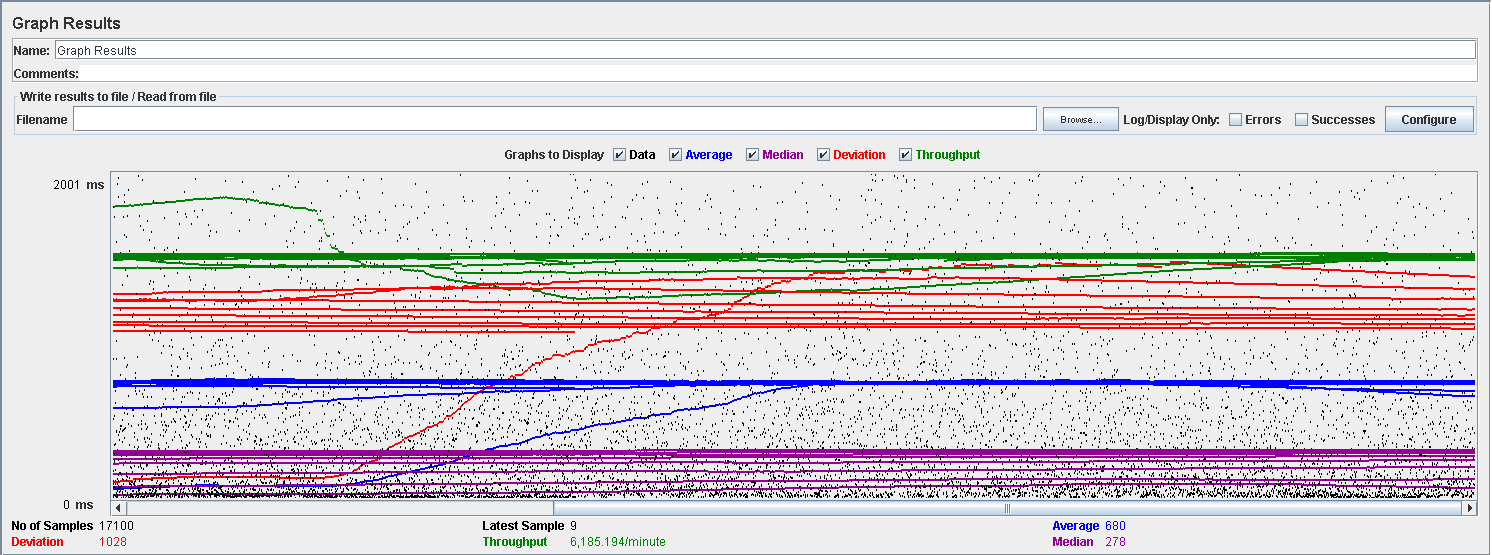




Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage shows some periodic peaks.

## Conclusion

The test was performed using:

CPU: i7 7700hq (2 cores in the virtual machine)

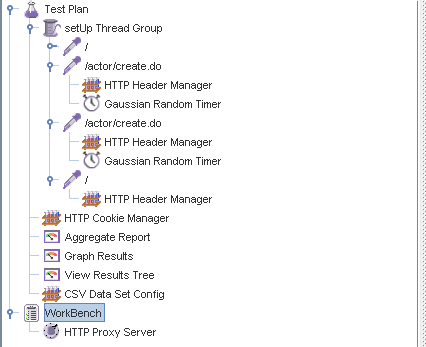
RAM: 4 GB (virtual machine)

For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users 190.

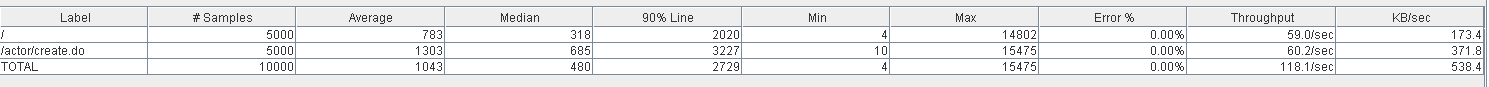
# Actor

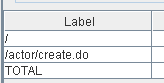
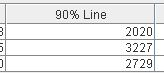
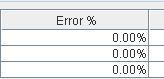
## Create

Sequence:

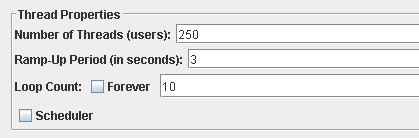


Aggregate Report:

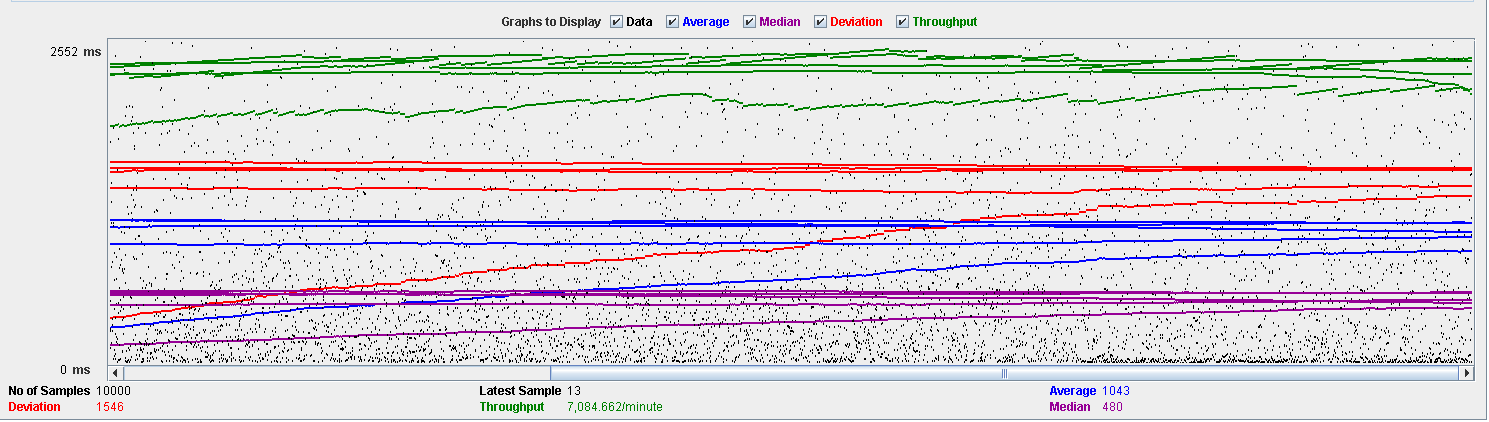


Thread properties:



Graph Results:



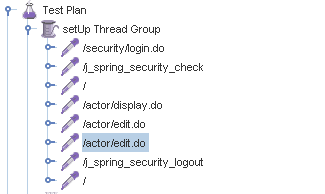
Performance Results:



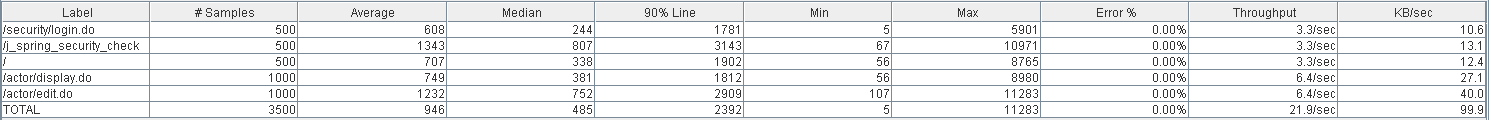
The CPU was always at its limit while the disk usage has a lot of peaks.

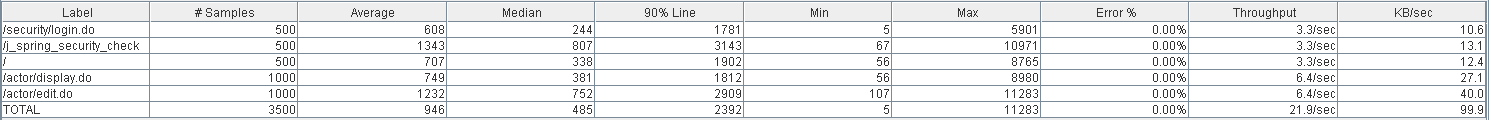
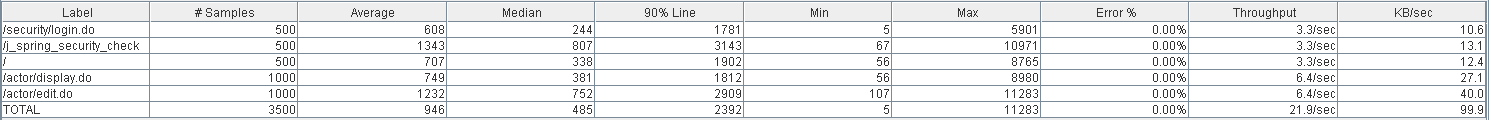
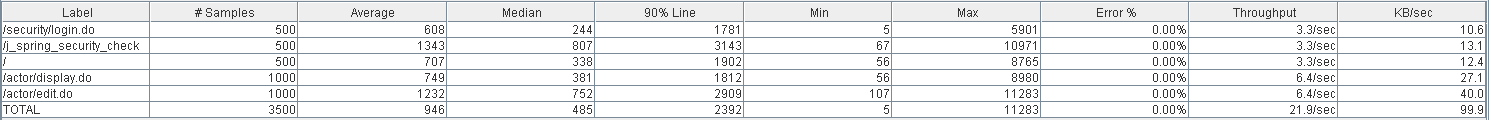
## Edit

Sequence:

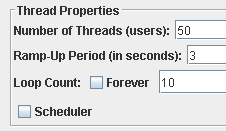


Aggregate Report:

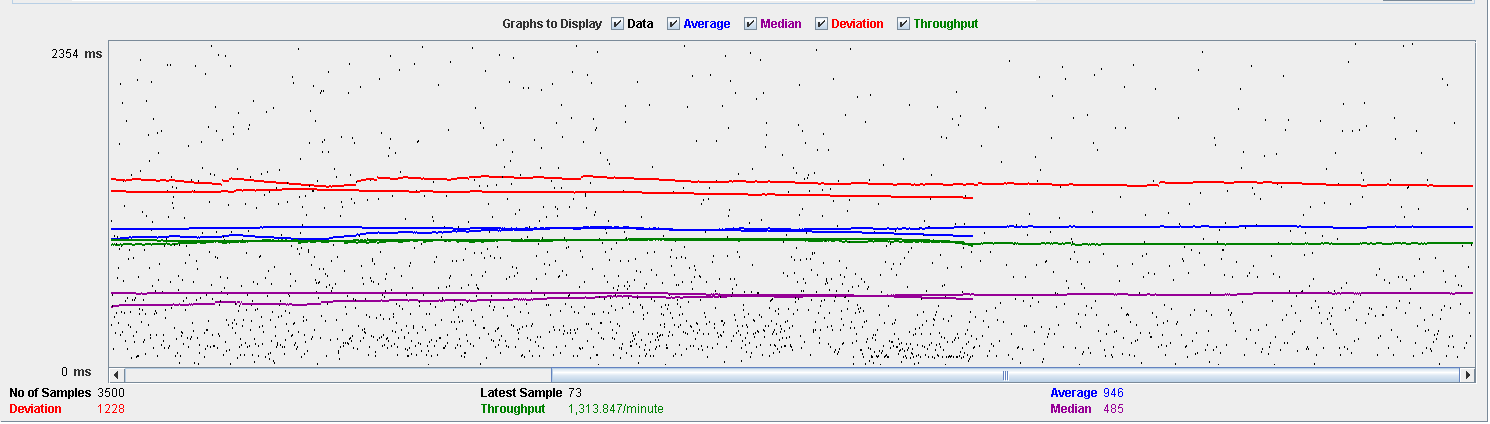




Thread properties:



Graph Results:



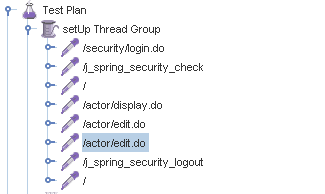
Performance Results:



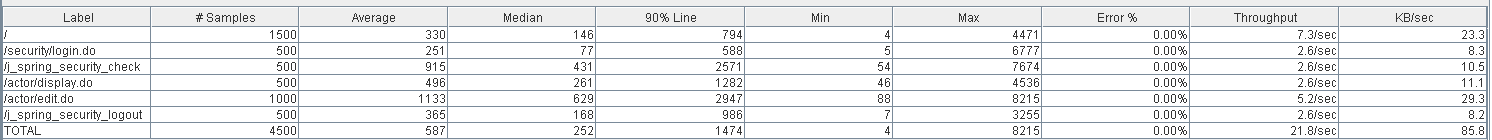
Again we can see that the CPU is always being used while the disk usage has some peaks at times.

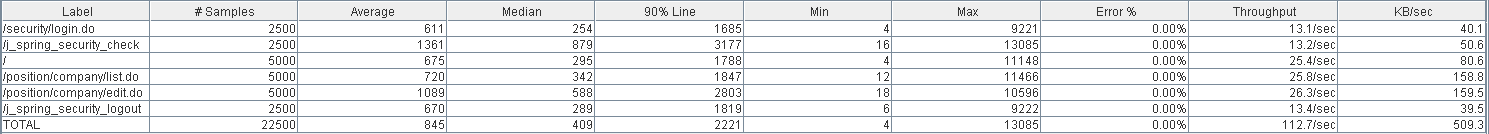
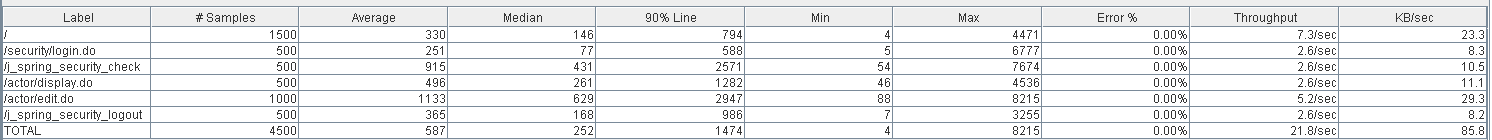
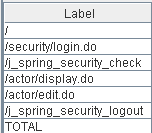
## Delete

Sequence:

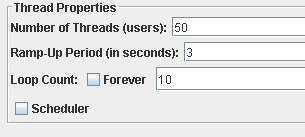


Aggregate Report:

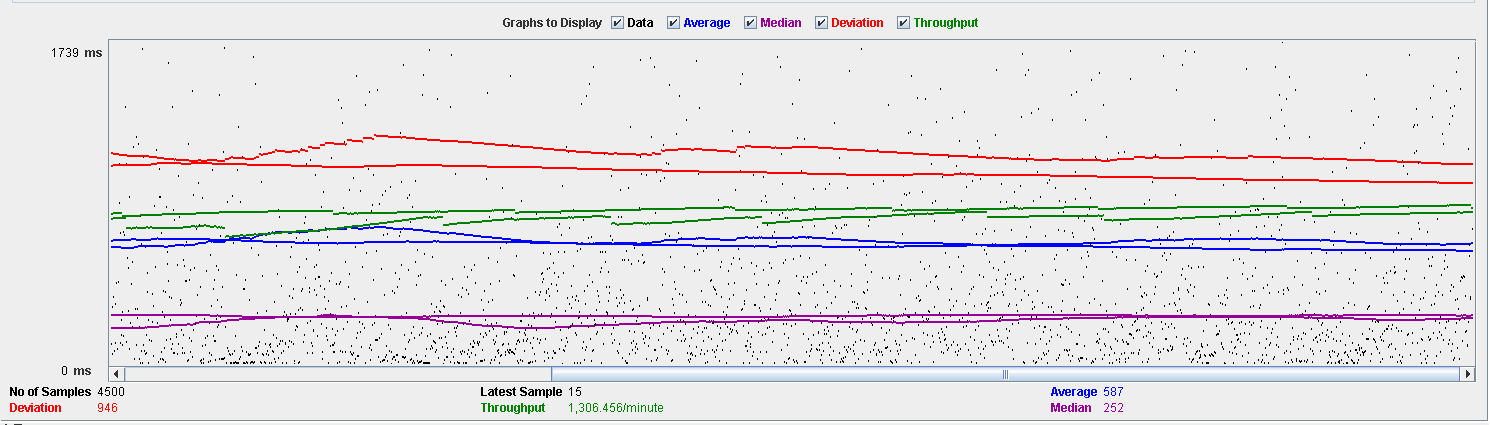




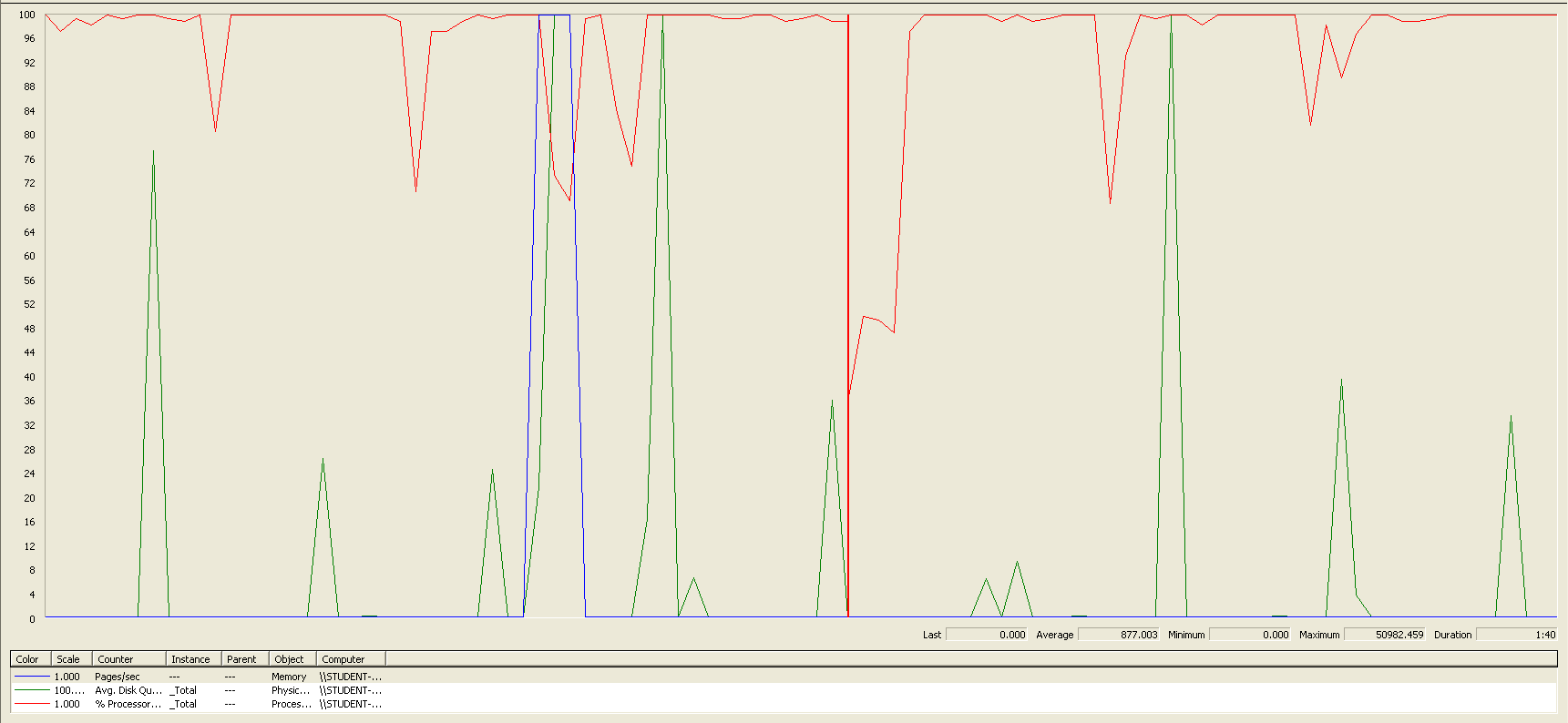
Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage has different peaks.

## Conclusion

The test was performed using:

CPU: i7 7700hq (2 cores in the virtual machine)

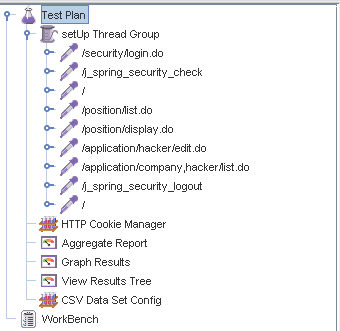
RAM: 4 GB (virtual machine)

For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users is 50.

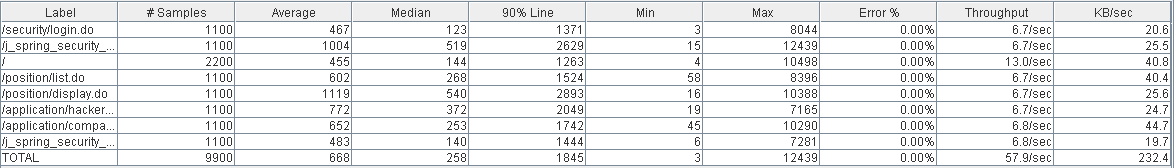
# Application

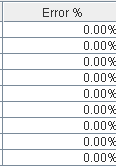
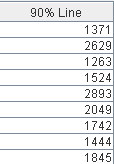
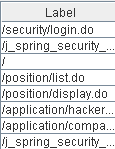
## Create

Sequence:

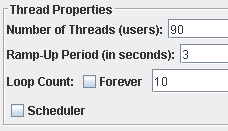


Aggregate Report:





Thread properties:



Graph Results:



Performance Results:



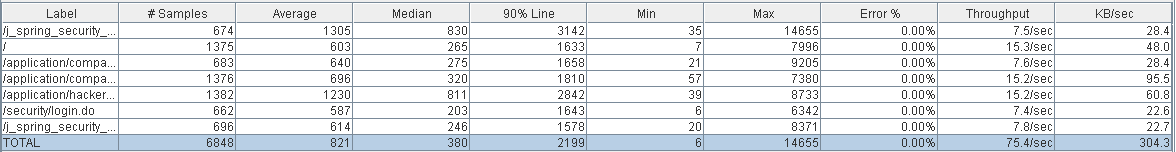
The CPU was always at its limit while the disk usage has some peaks.

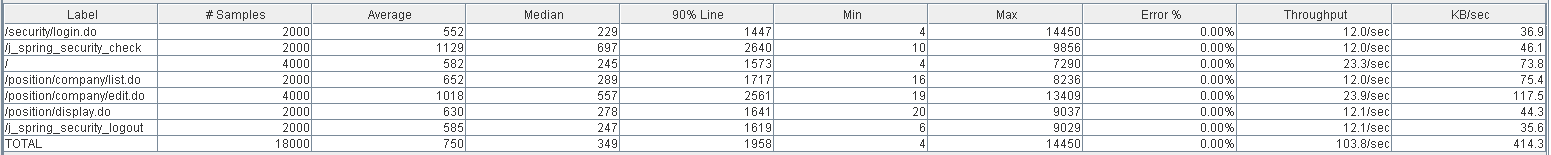
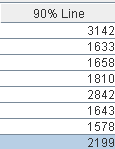
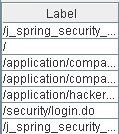
## Edit

Sequence:

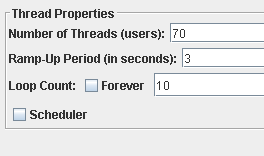


Aggregate Report:

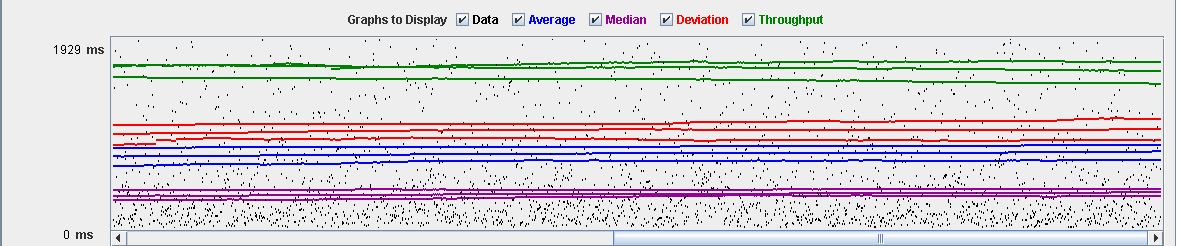




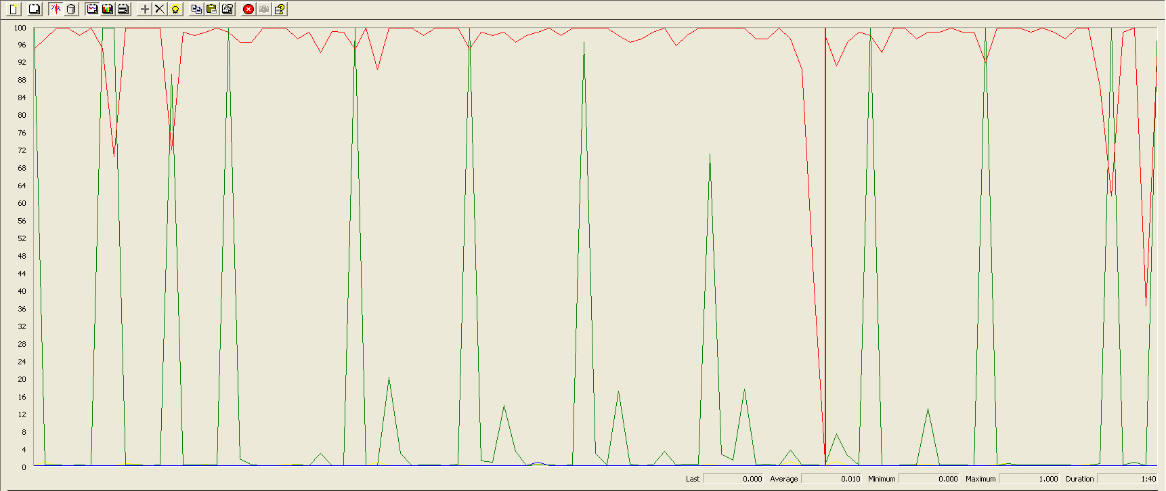
Thread properties:



Graph Results:



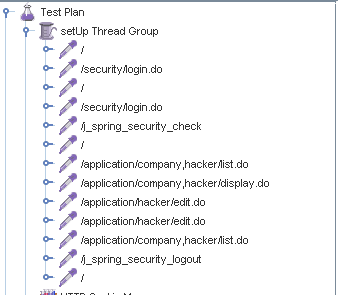
Performance Results:



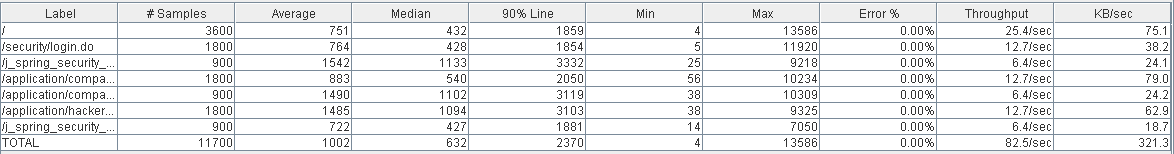
Again we can see that the CPU is always being used while the disk usage has low peaks at times.

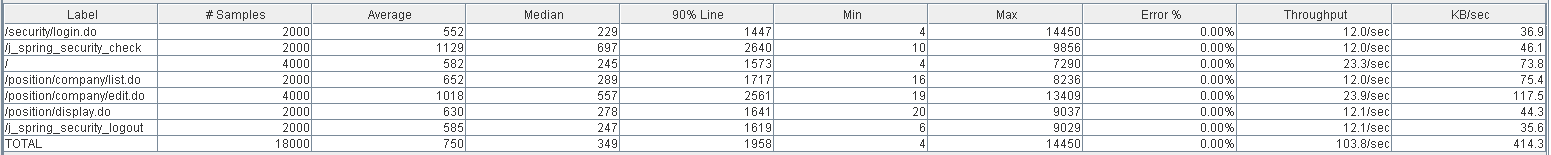
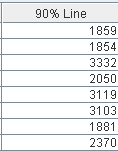
## Delete

Sequence:

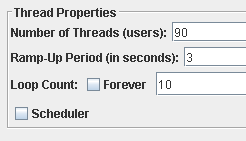


Aggregate Report:

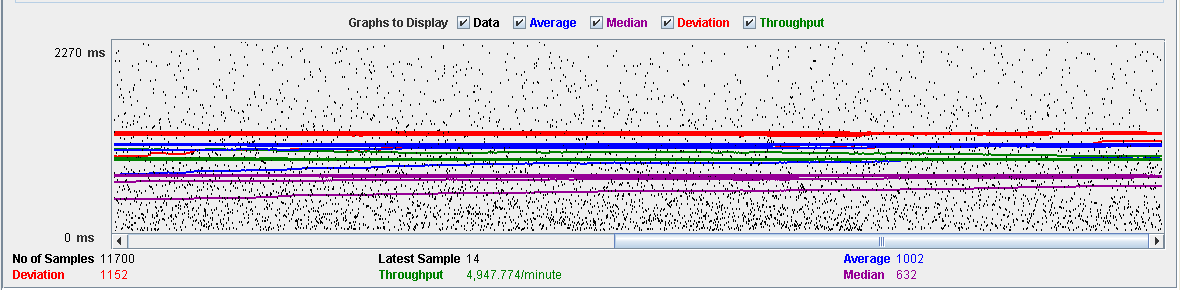




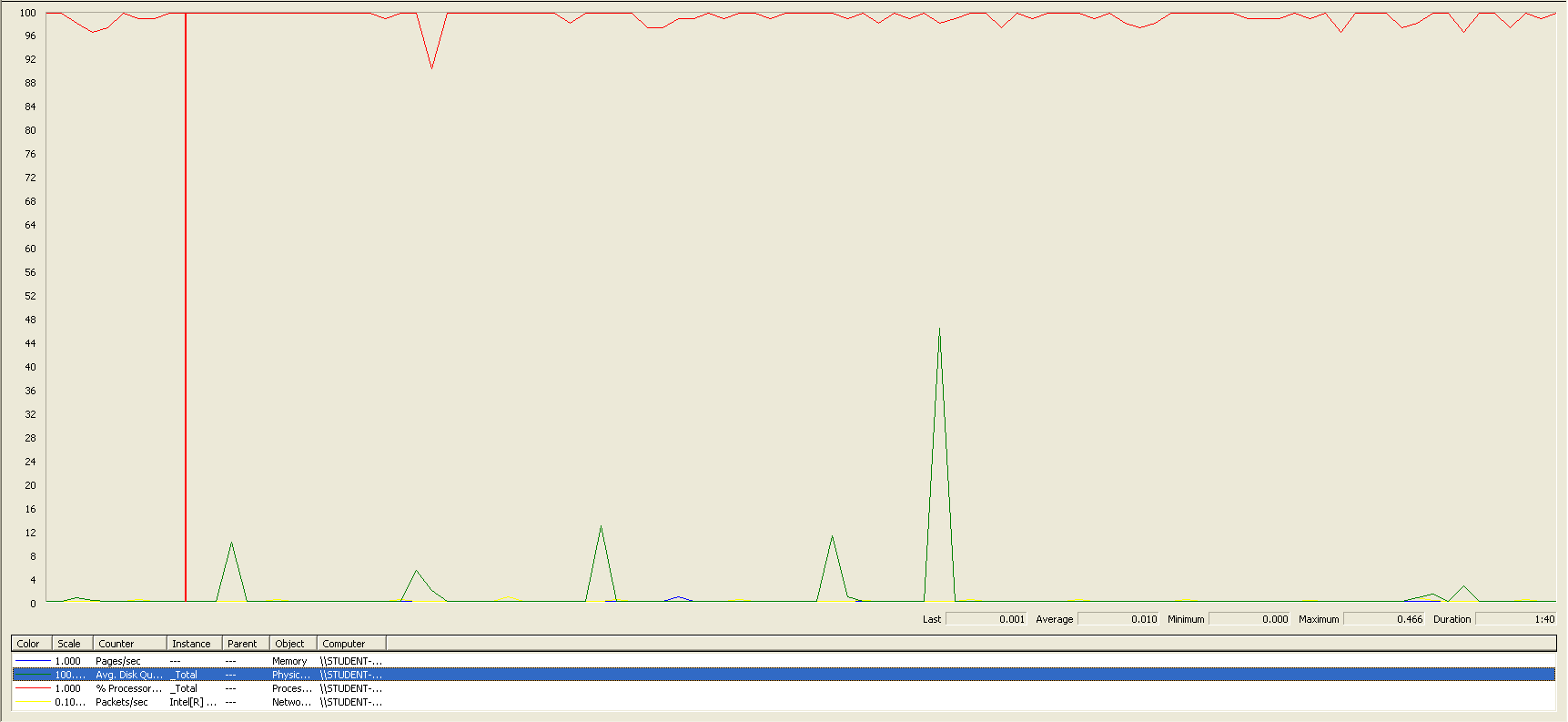
Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage has different peaks.

## Conclusion

The test was performed using:

CPU: i7 7700hq (2 cores in the virtual machine)

RAM: 4 GB (virtual machine)

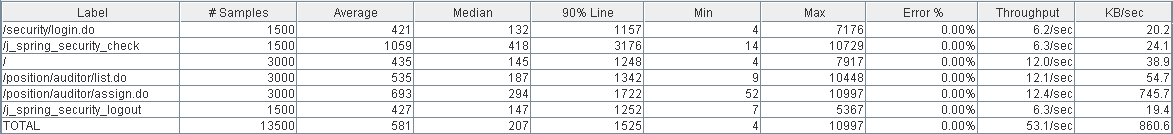
For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users 70.

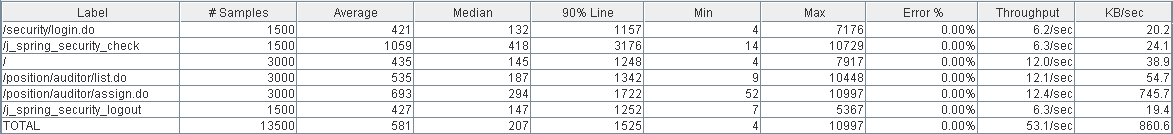
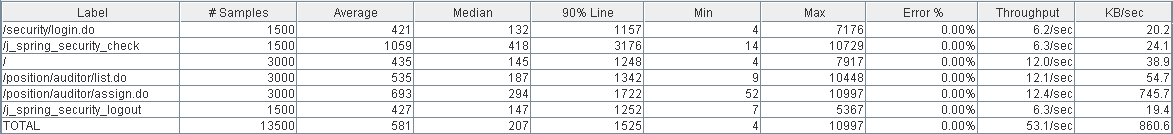
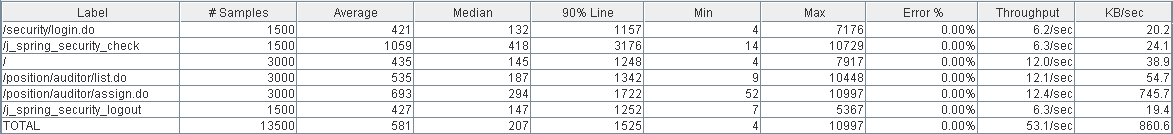
# Audit

## Assign

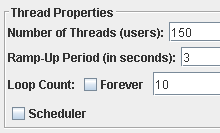


Aggregate Report:

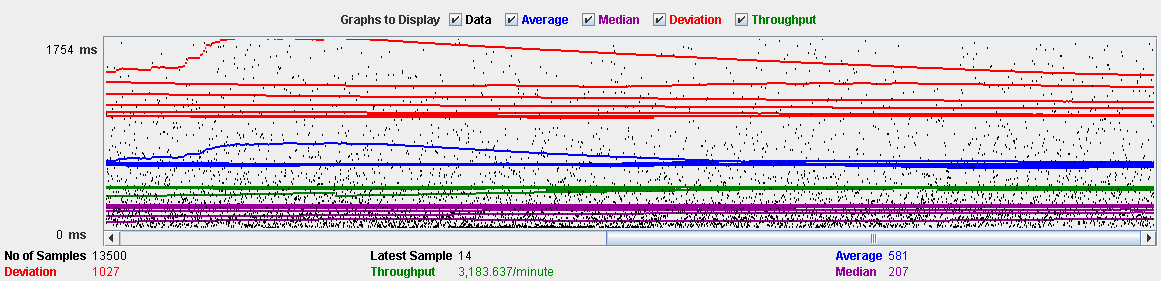




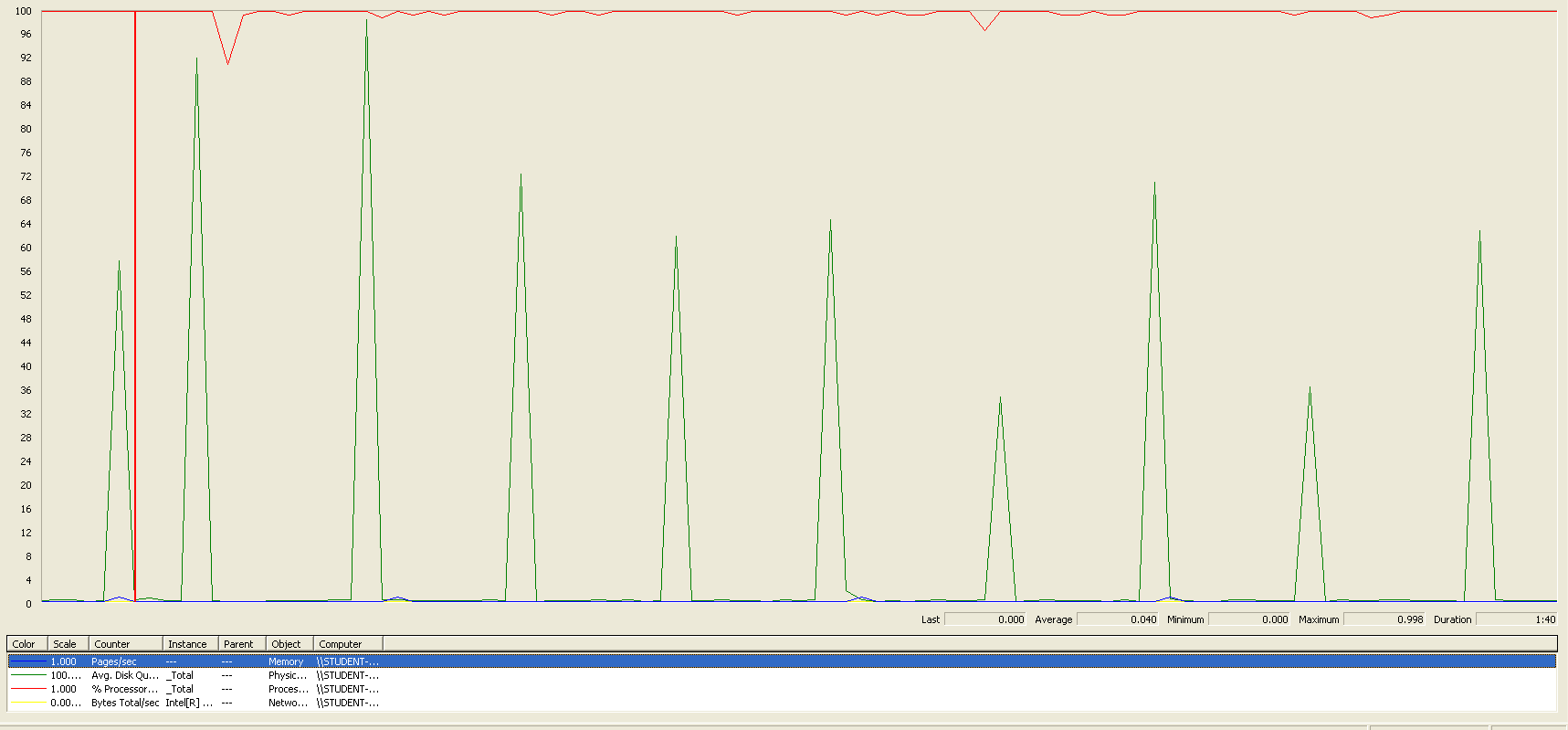
Thread properties:



Graph Results:



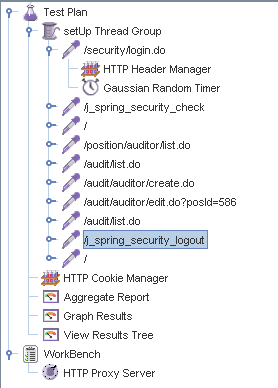
Performance Results:



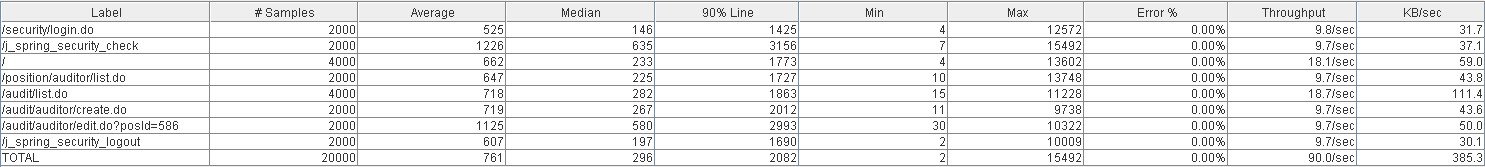
The CPU was always at its limit while the disk usage showed many peaks.

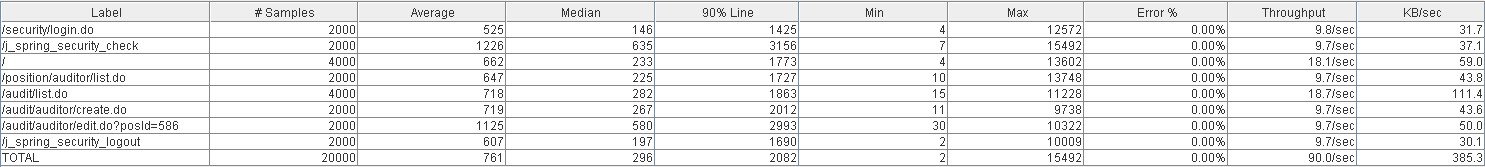
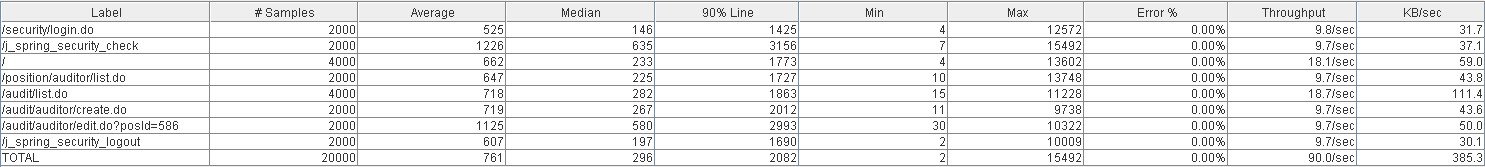
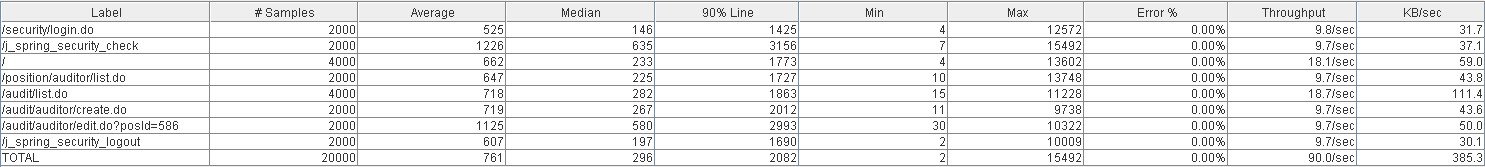
## Create

Sequence:

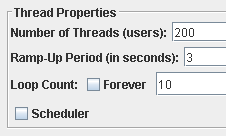


Aggregate Report:

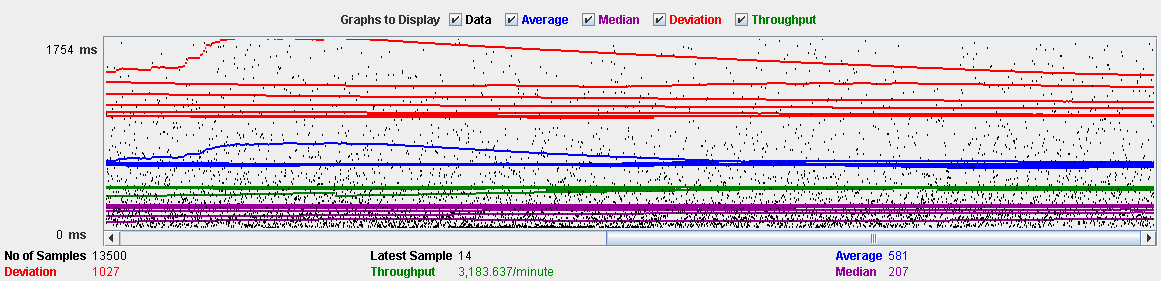




Thread properties:



Graph Results:



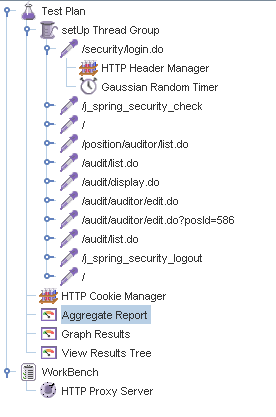
Performance Results:



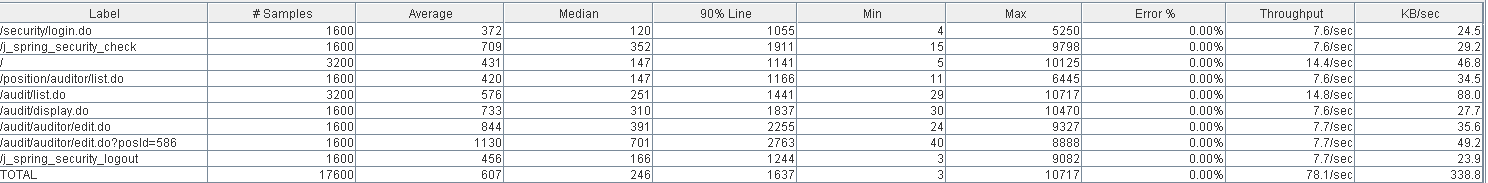
The CPU was always at its limit in various points of the execution while the disk usage showed many peaks.

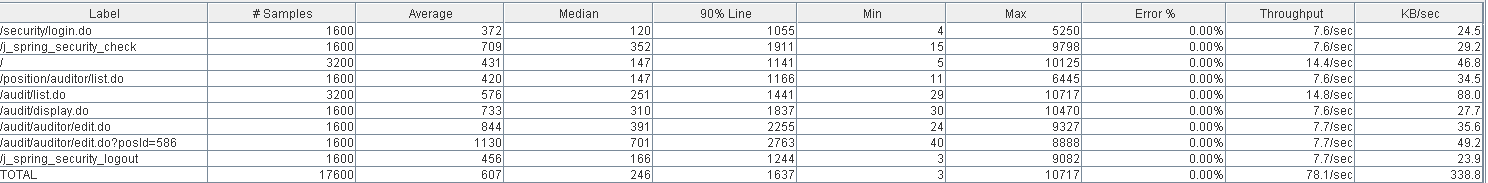
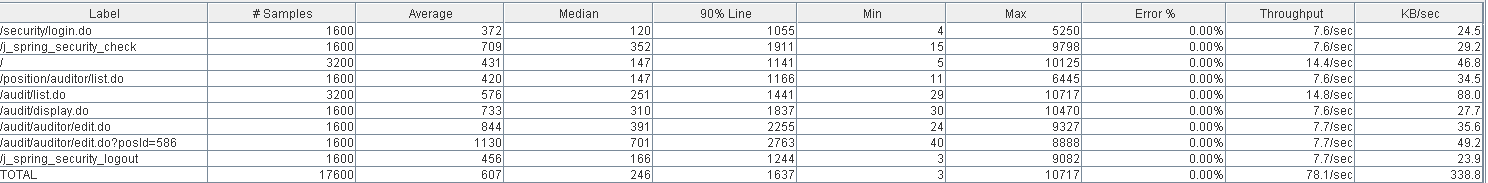
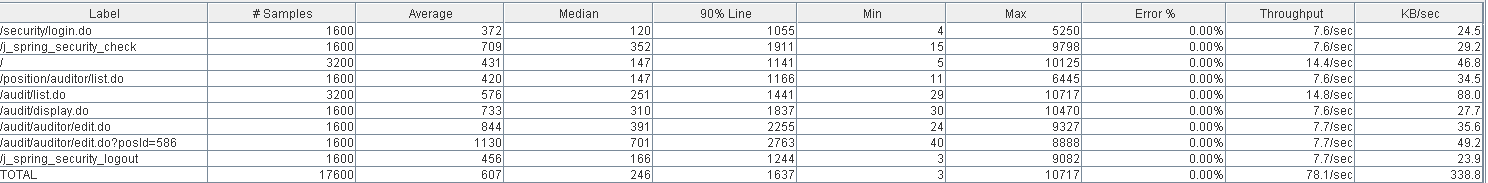
## Edit

Sequence:

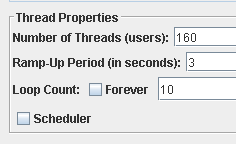


Aggregate Report:

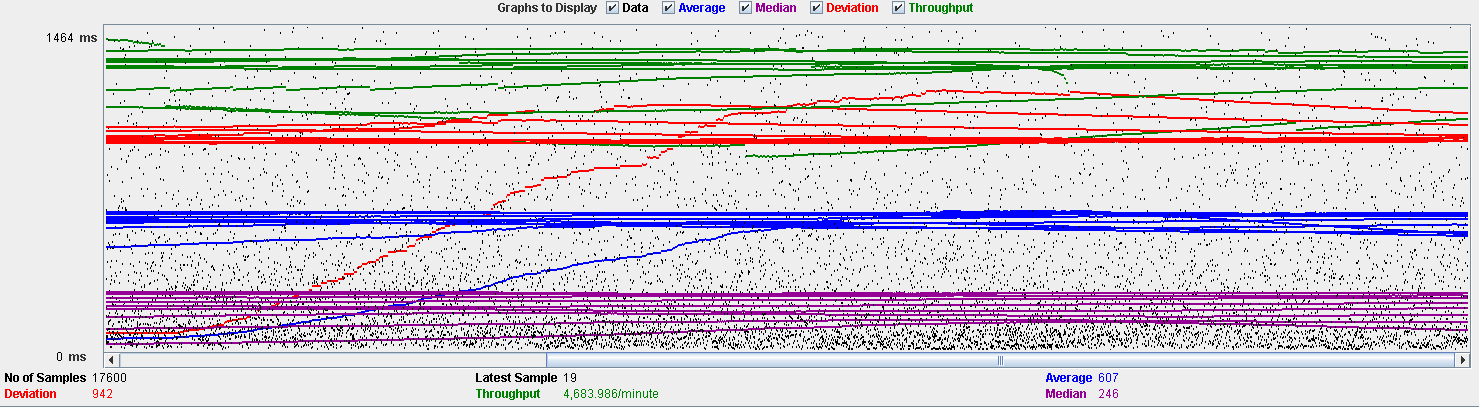




Thread properties:



Graph Results:



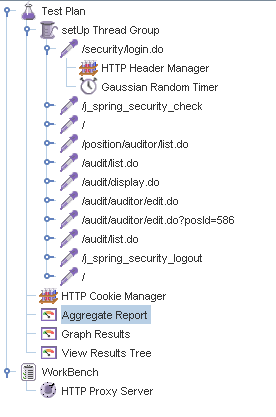
Performance Results:



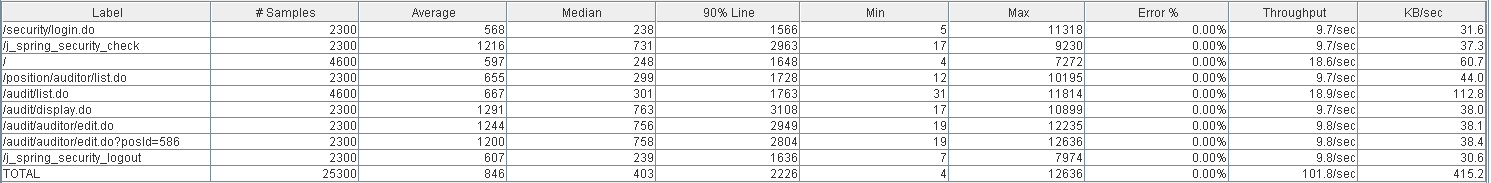
The CPU was always at its limit while the disk usage showed many peaks.

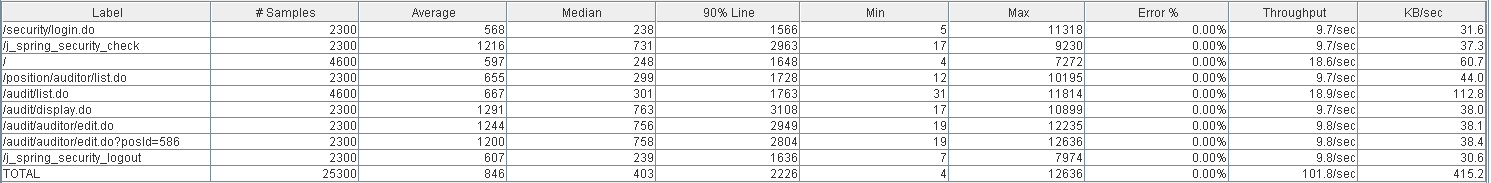
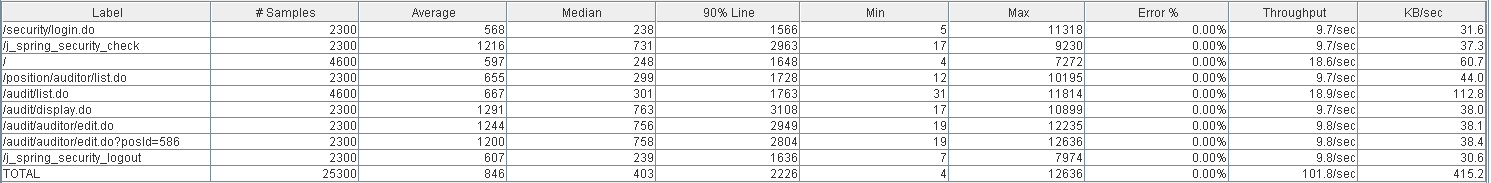
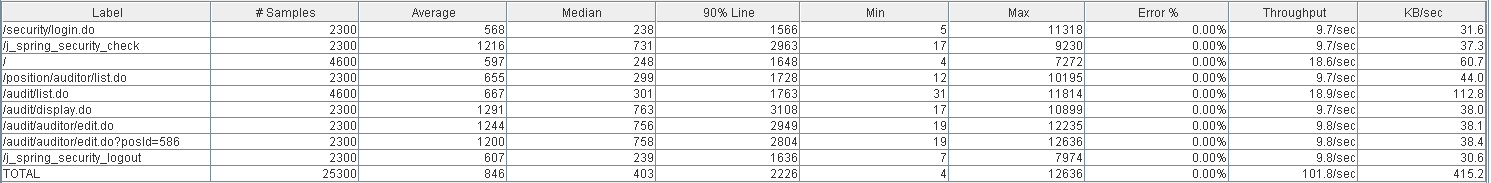
## Delete

Sequence:

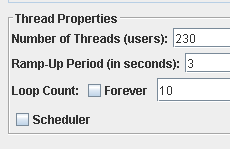


Aggregate Report:

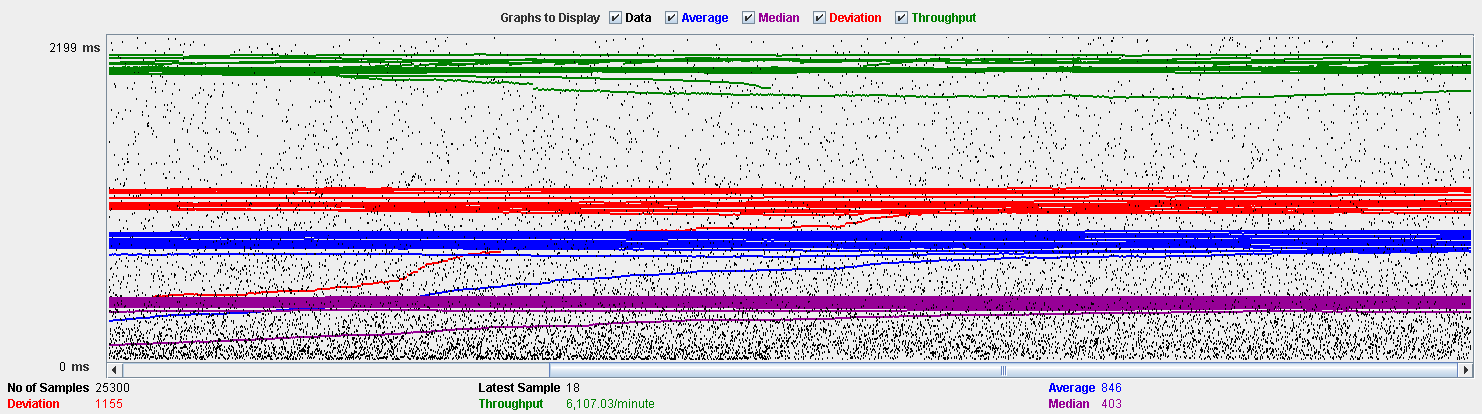




Thread properties:



Graph Results:



Performance Results:



The CPU was always at its limit.

## Conclusion

The test was performed using:

CPU: i7 6700hq (2 cores in the virtual machine)

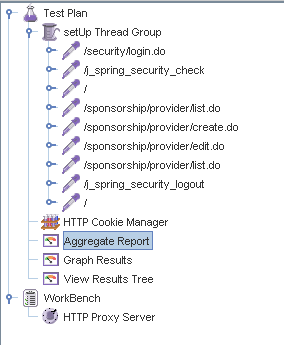
RAM: 4 GB (virtual machine)

For this use case we can say that the limitation occurs during the assign process, being the maximum of concurrent users 150.

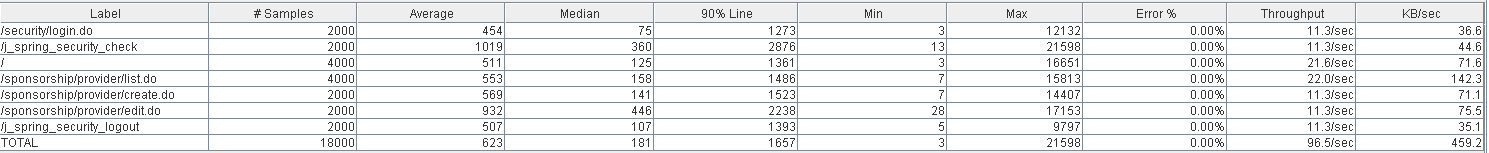
# Sponsorship

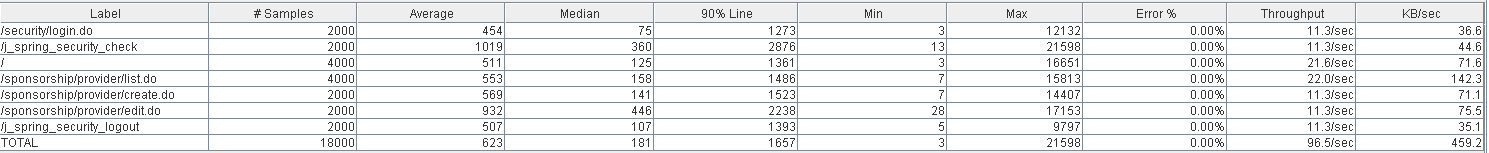
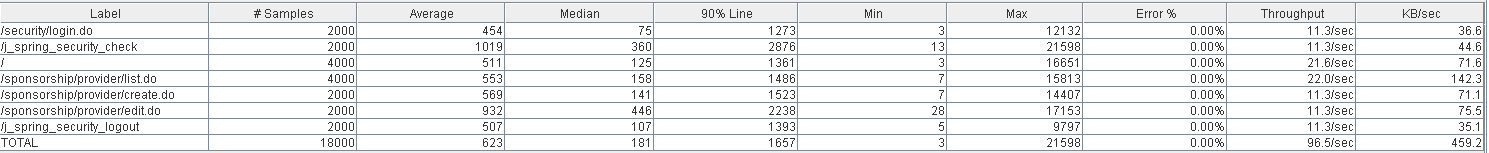
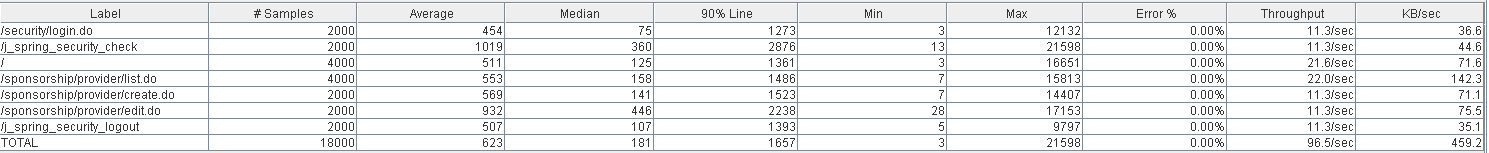
## Create

Sequence:

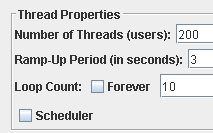


Aggregate Report:

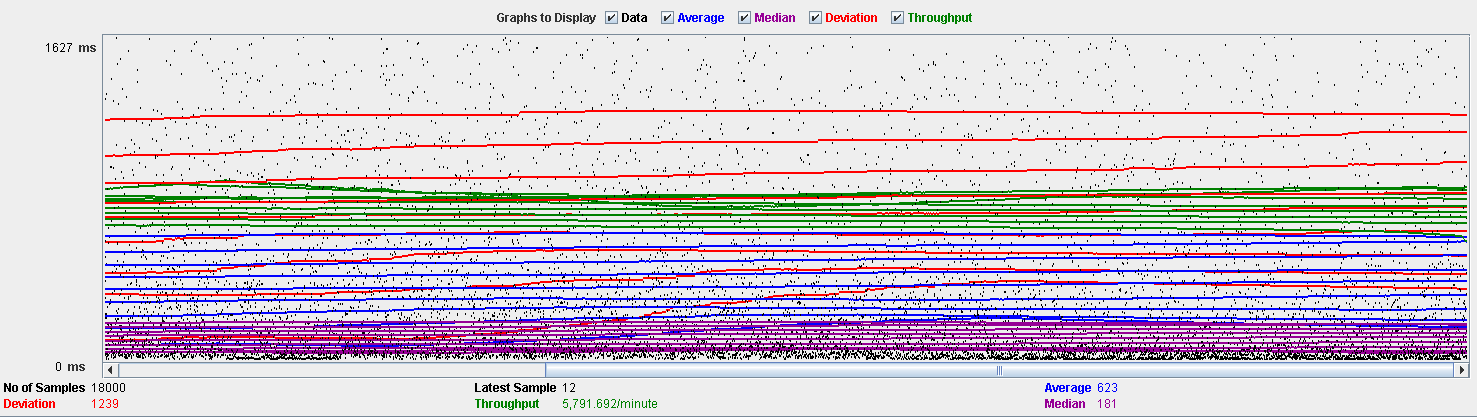




Thread properties:



Graph Results:



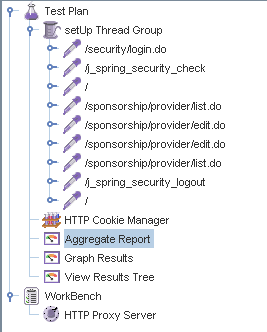
Performance Results:



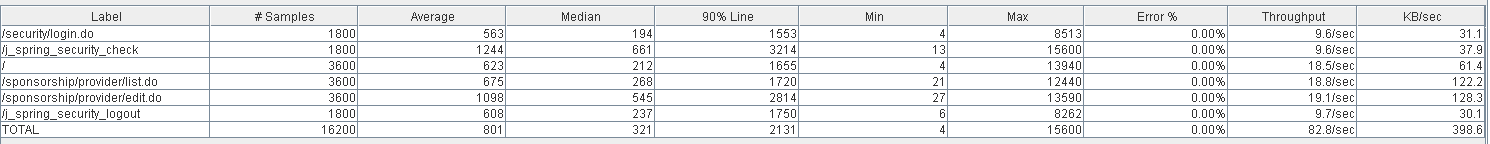
The CPU was always at its limit while the disk usage showed many peaks.

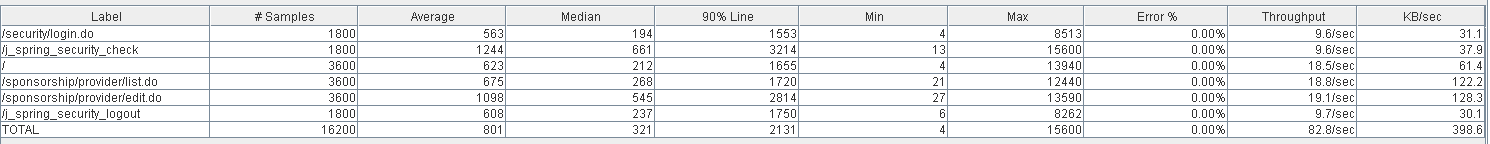
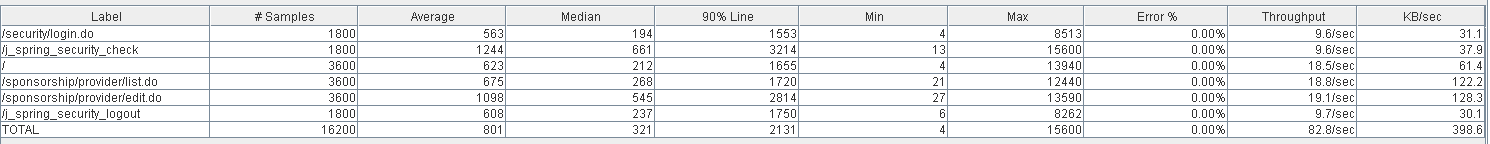
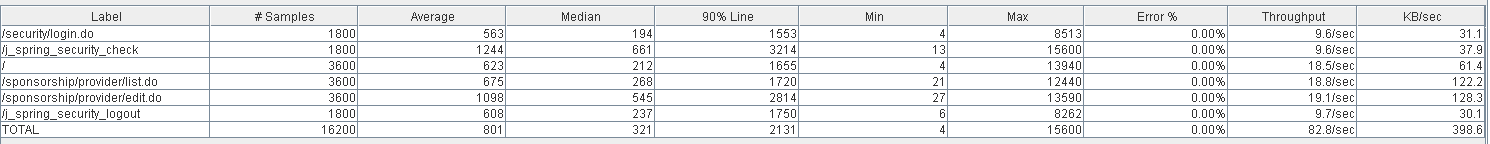
## Edit

Sequence:

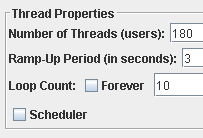


Aggregate Report:

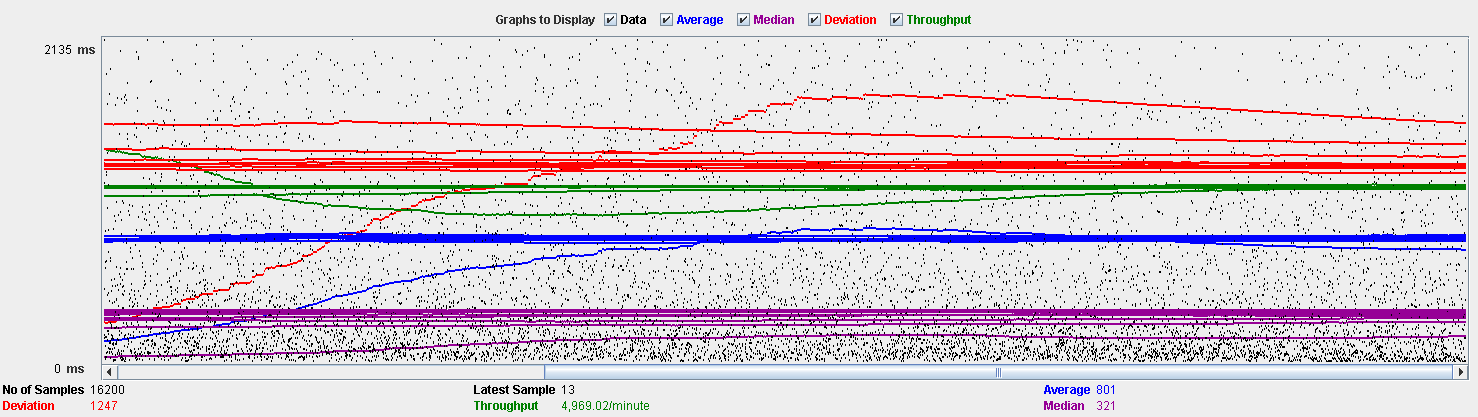




Thread properties:



Graph Results:



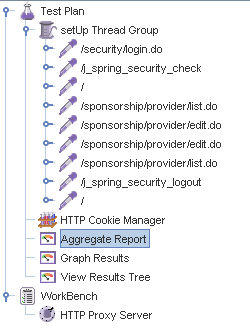
Performance Results:



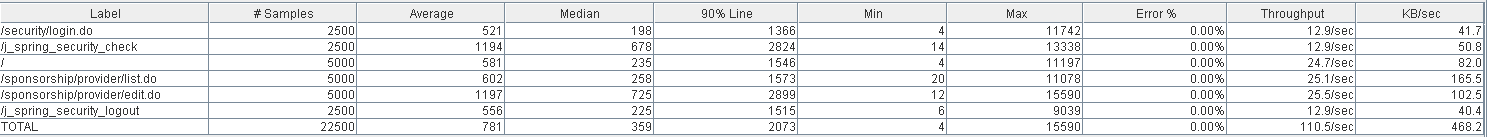
The CPU was always at its limit.

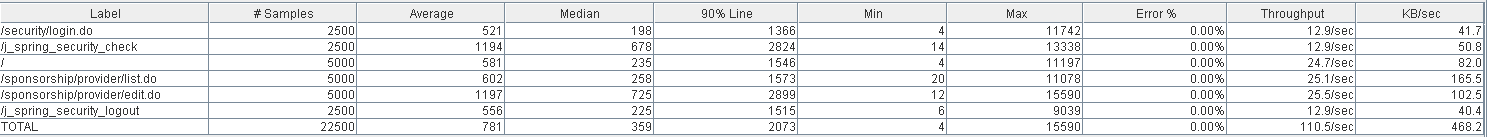
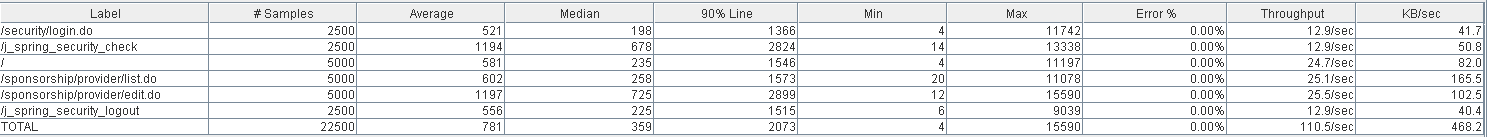
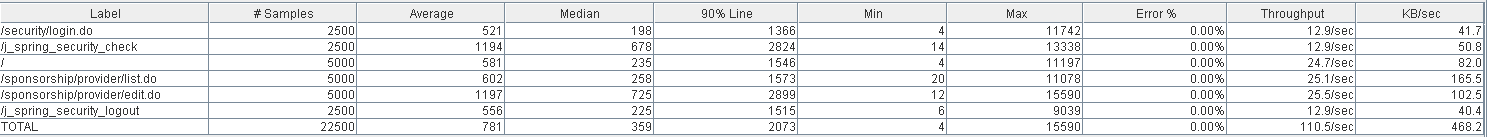
## Delete

Sequence:

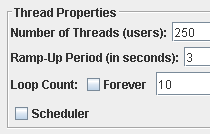


Aggregate Report:

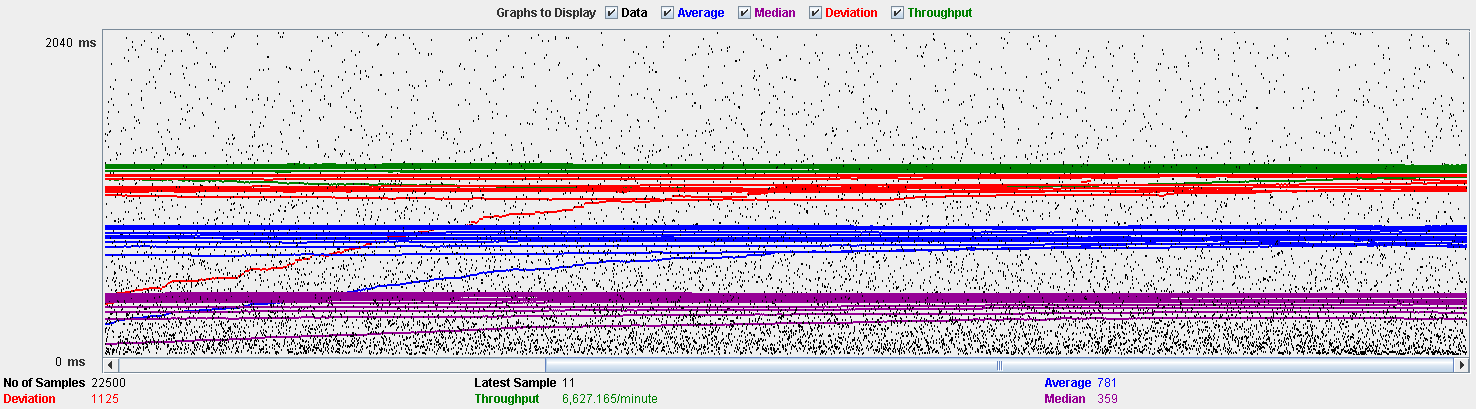




Thread properties:



Graph Results:



Performance Results:



The CPU was always at its limit.

## Conclusion

The test was performed using:

CPU: i7 6700hq (2 cores in the virtual machine)

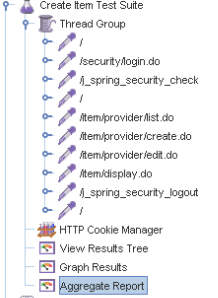
RAM: 4 GB (virtual machine)

For this use case we can say that the limitation occurs during the edit process, being the maximum of concurrent users 180.

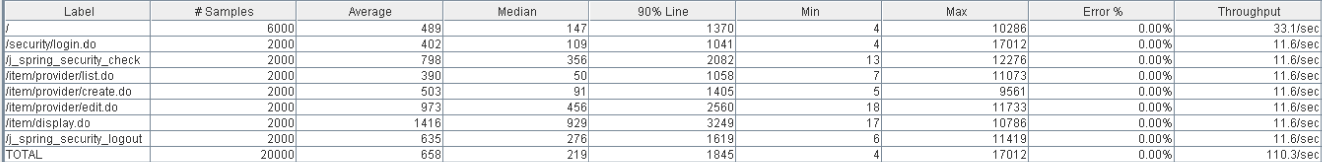
# Item

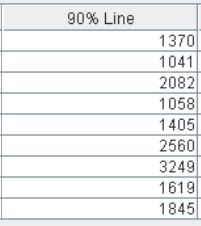
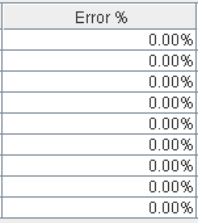
## Create

Sequence:

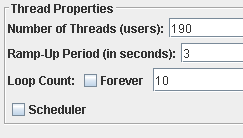


Aggregate Report:

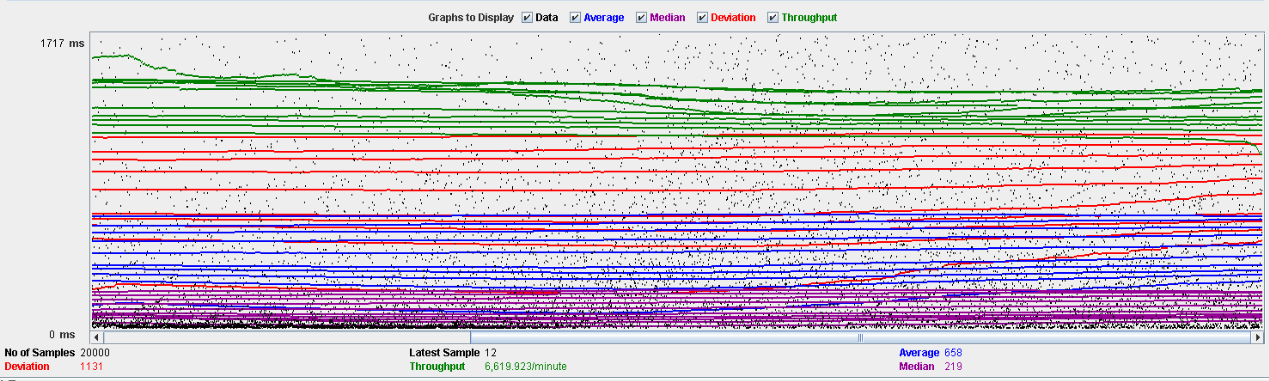


Thread properties:



Graph Results:



Performance Results:



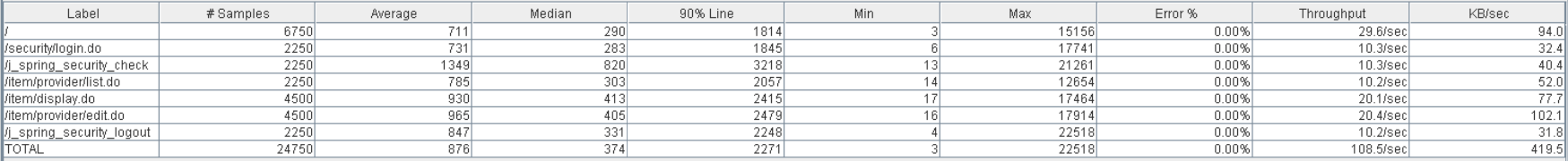
The CPU was always at its limit while the disk usage has some peaks.

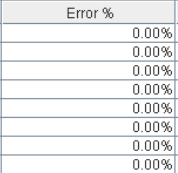
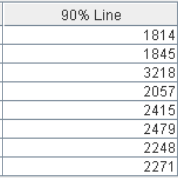
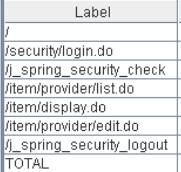
## Edit

Sequence:

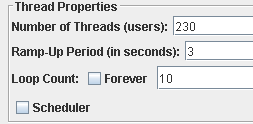


Aggregate Report:

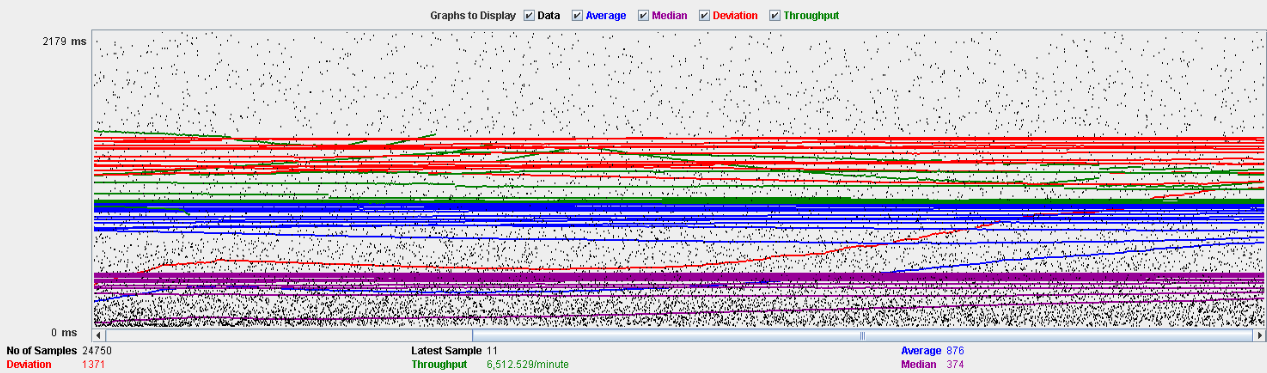




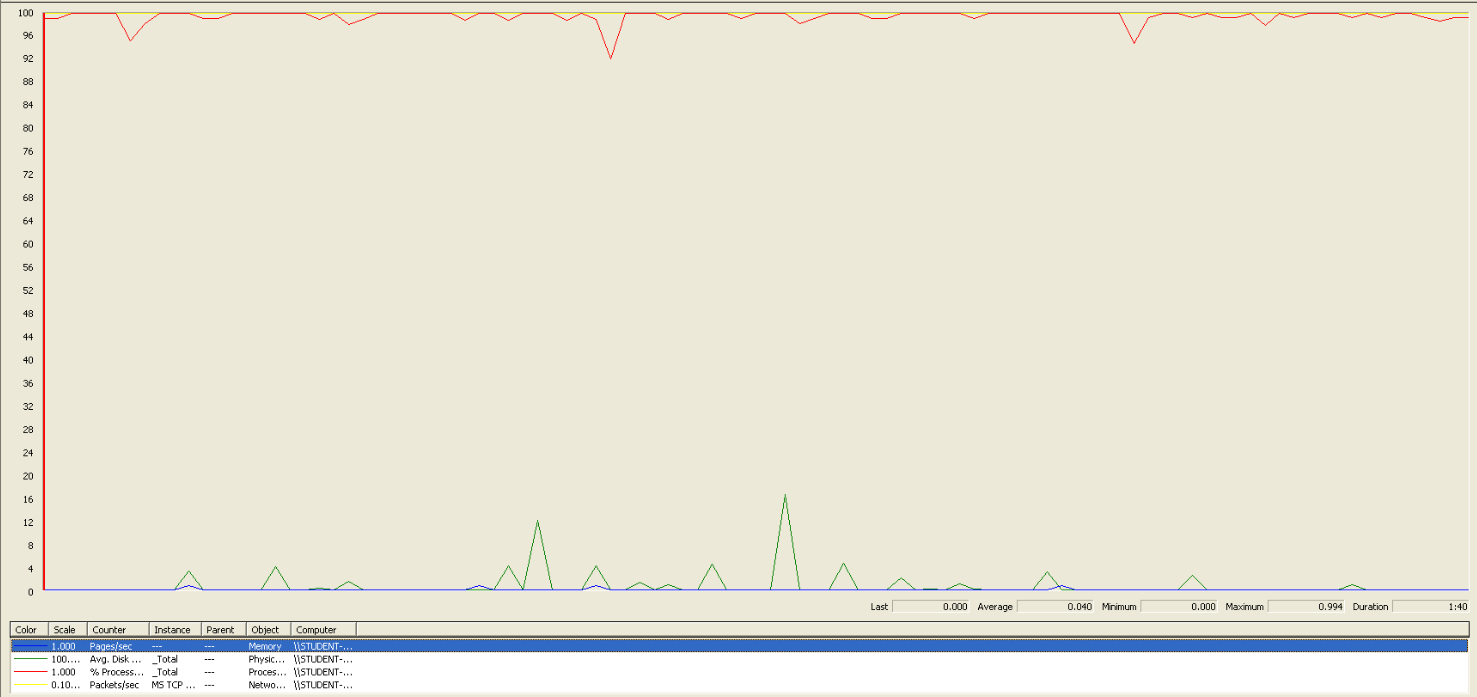
Thread properties:



Graph Results:



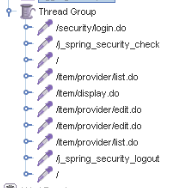
Performance Results:



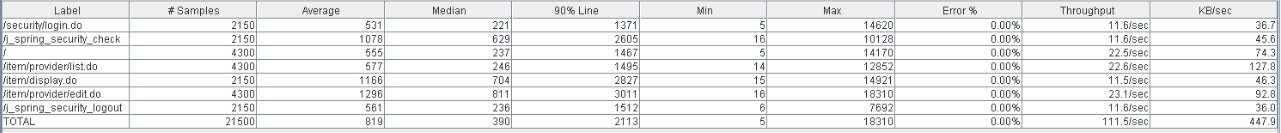
Again we can see that the CPU is always being used, is the problem in this use case.

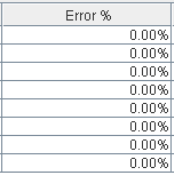
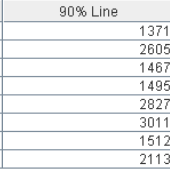
## Delete

Sequence:

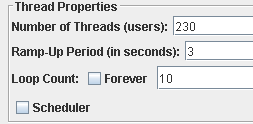


Aggregate Report:

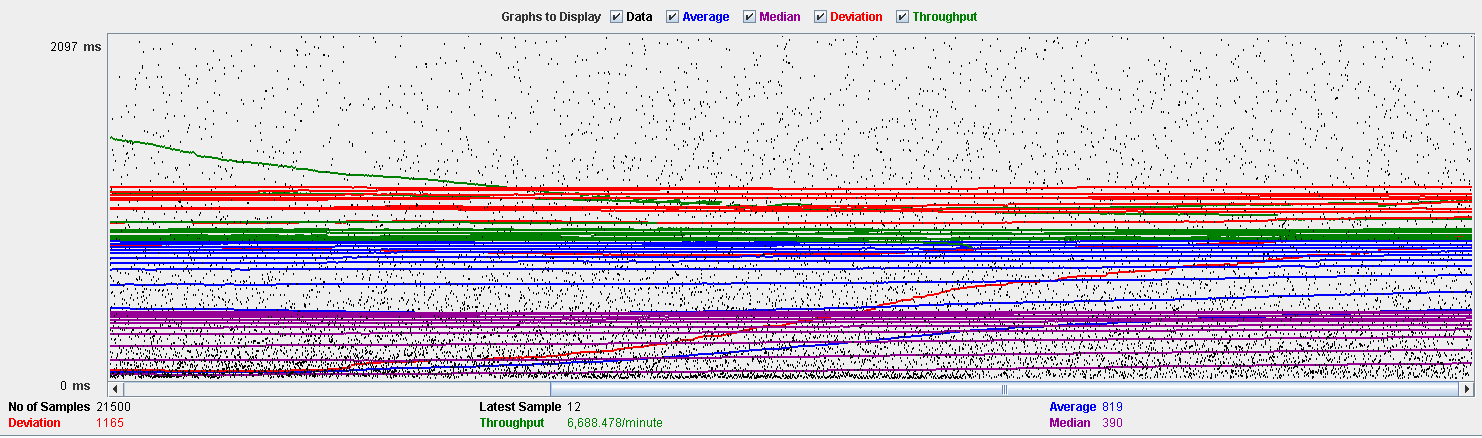




Thread properties:



Graph Results:



Performance Results:



Again we can see that the CPU is always being used while the disk usage has different peaks.

## Conclusion

The test was performed using:

CPU: i5 7300hq (2 cores in the virtual machine)

RAM: 2 GB (virtual machine)

For this use case we can say that the limitation occurs during the creation process, being the maximum of concurrent users 190.

# Conclusion of the performance

As we can see in the tests above, the limitations of our system are in the message system, specially in the method of broadcasting a message (14 concurrent users). We think that this may be a bit unrealistic, because in a real environment won’t be many administrators sending multiple notifications. Due that, we consider that the limit of concurrent users for our system is 45 (sending a message).