 Ingeniería Informática del Software

**Diseño y Pruebas**

**Informe jMeter – D12: Item 6.**

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# Introducción

En las próximas páginas se mostrará un análisis de las pruebas realizadas con la herramienta jMeter sobre nuestro proyecto.

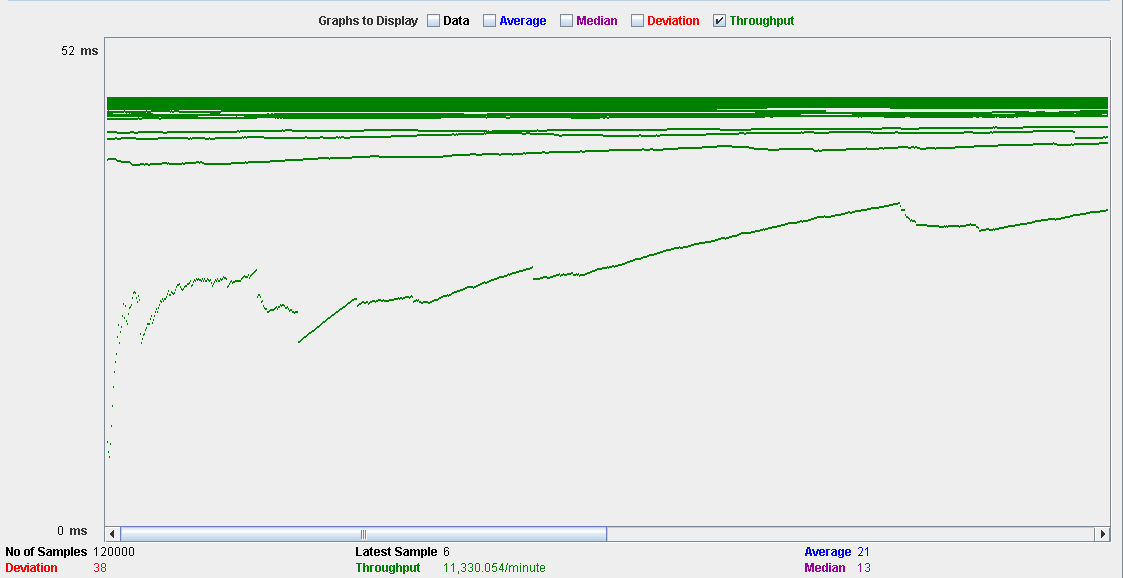
Se destacará cual es el máximo rendimiento del sistema y se mostrarán capturas que lo confirmen.

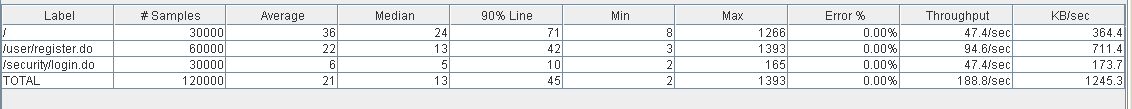
# Análisis máximo rendimiento

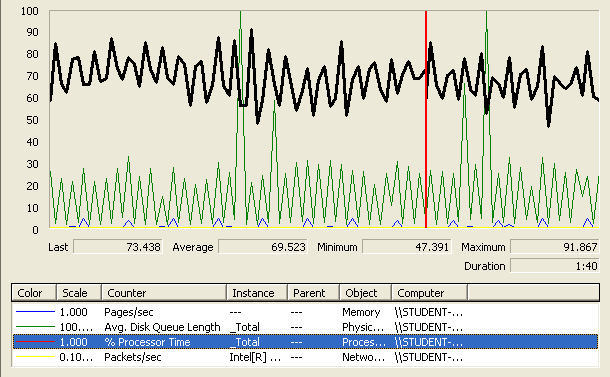
Mediante el uso de jMeter hemos obtenido un script para cada caso de uso. Para cada uno de ellos se han realizado pruebas primero comenzando con 10,20,50,100,150 y 200 usuarios. Al usar una carga de 200 usuarios ya comenzaba a dar fallos en la mayoría de casos de uso, así que al final quedamos en hacer los casos de uso con 150 usuarios y 200 repeticiones.

Todos los test tendrán los resultados en forma de grafo, con números y además de una imagen del rendimiento, destacando el cuello de botella.

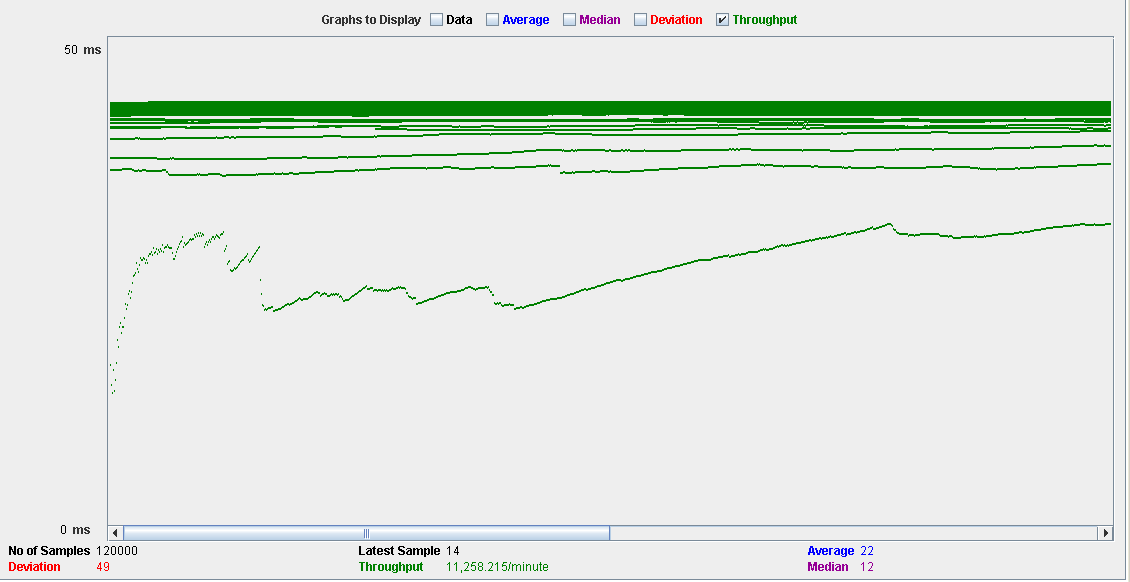
# Register as user

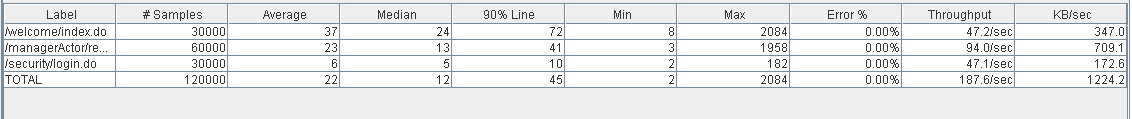


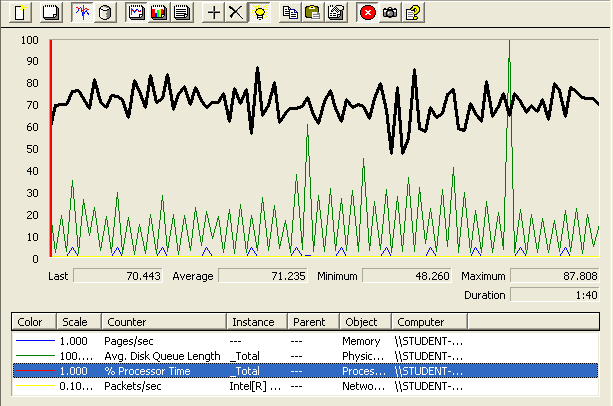




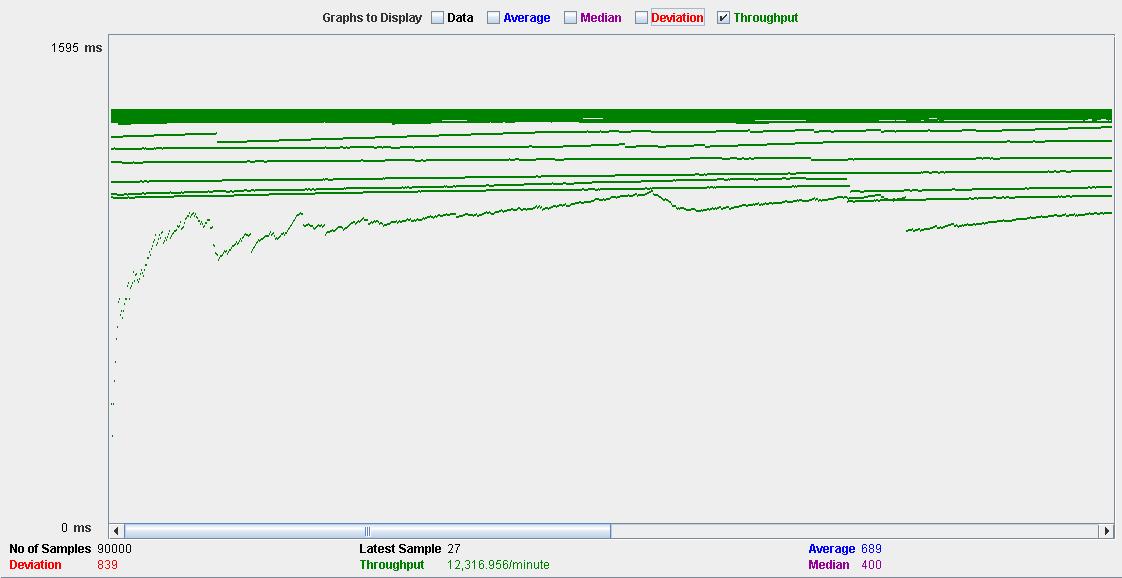
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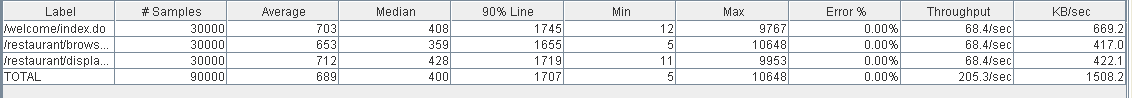


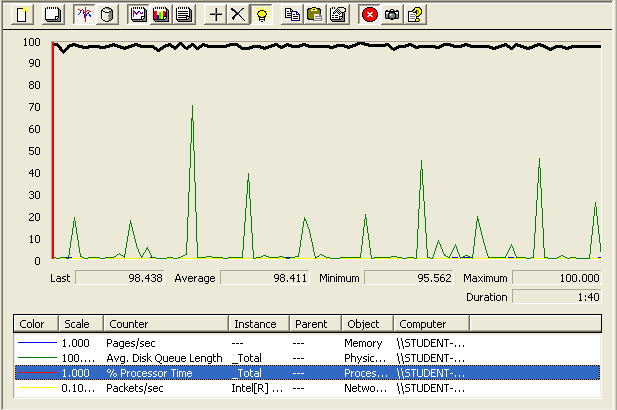




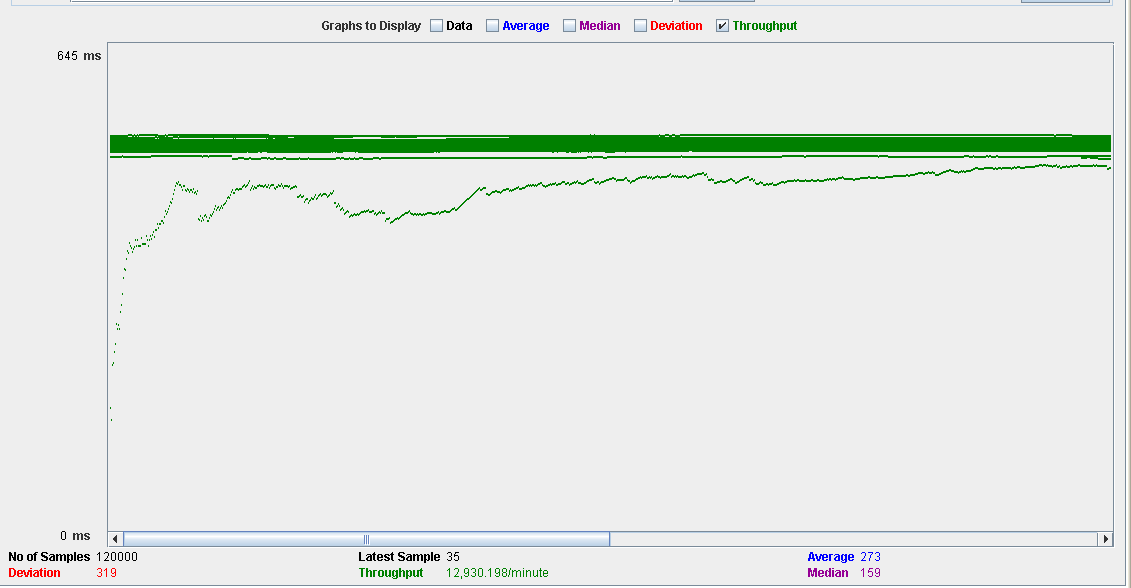
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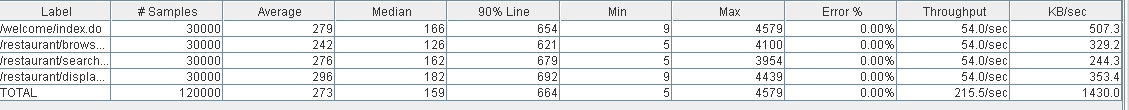


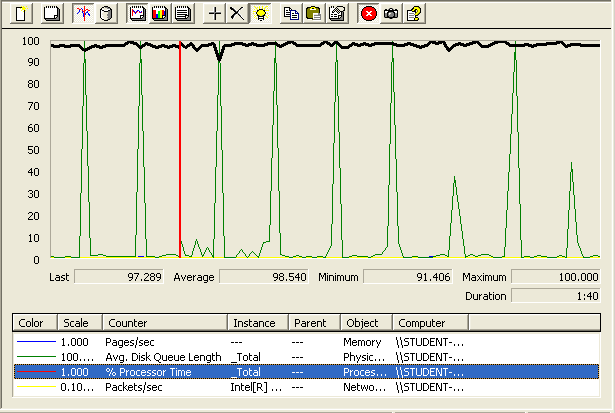




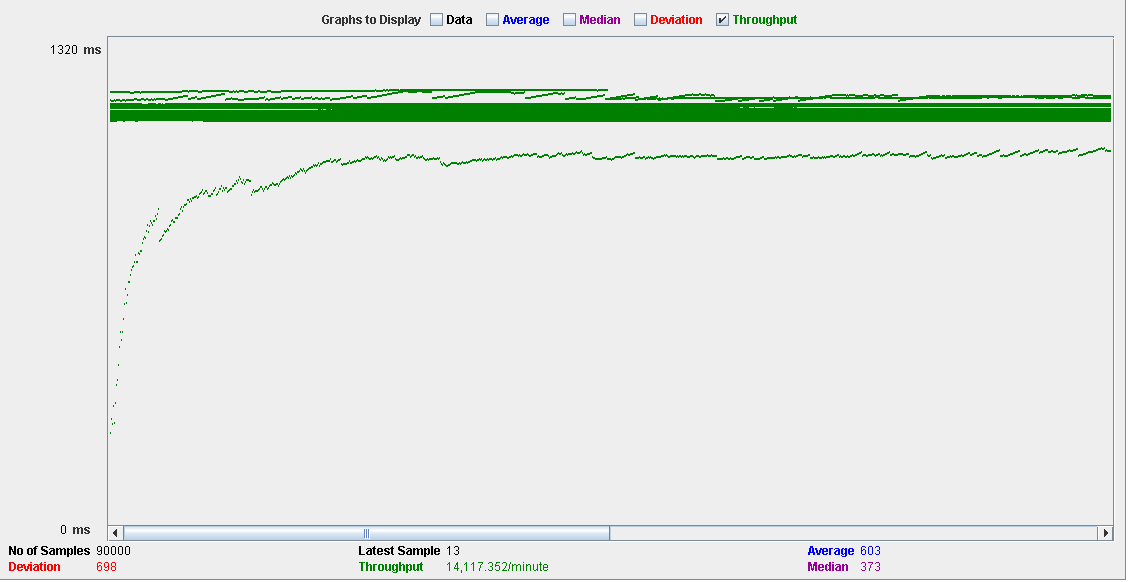
# Search Restaurant

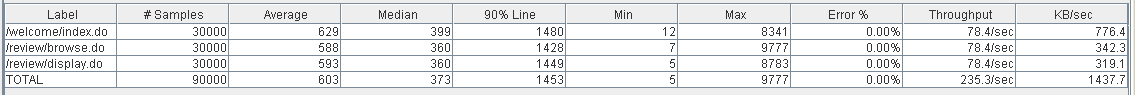


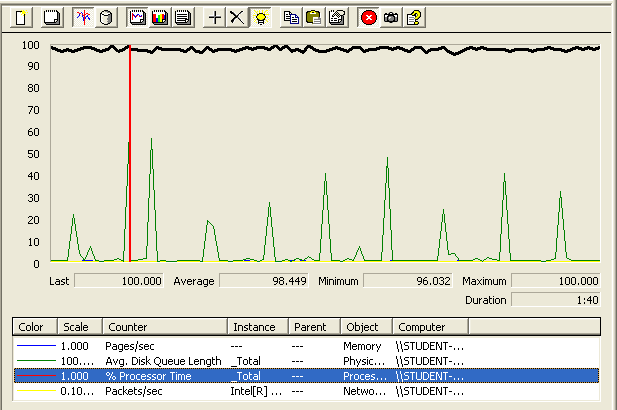




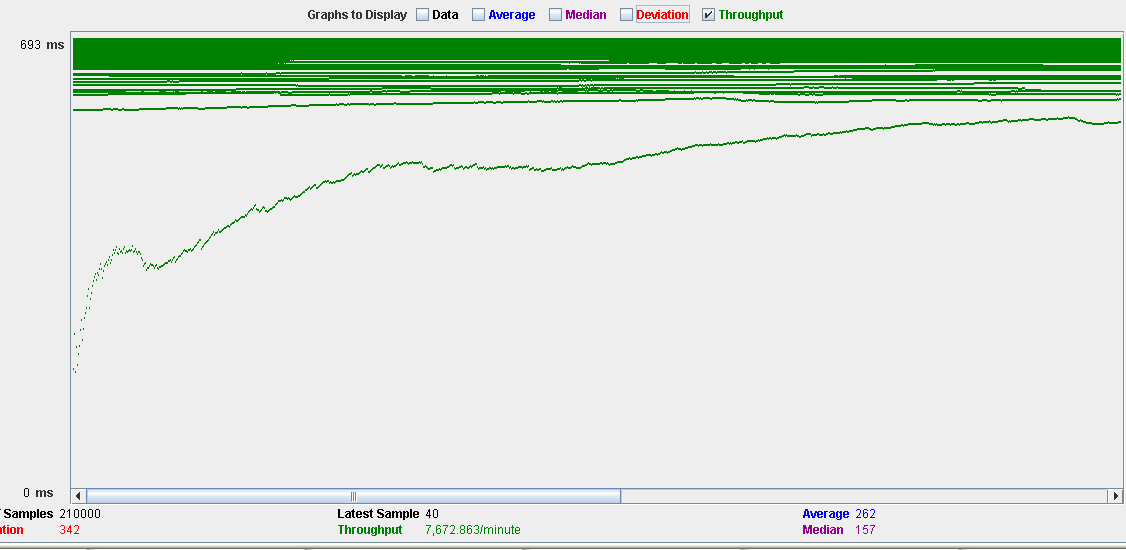
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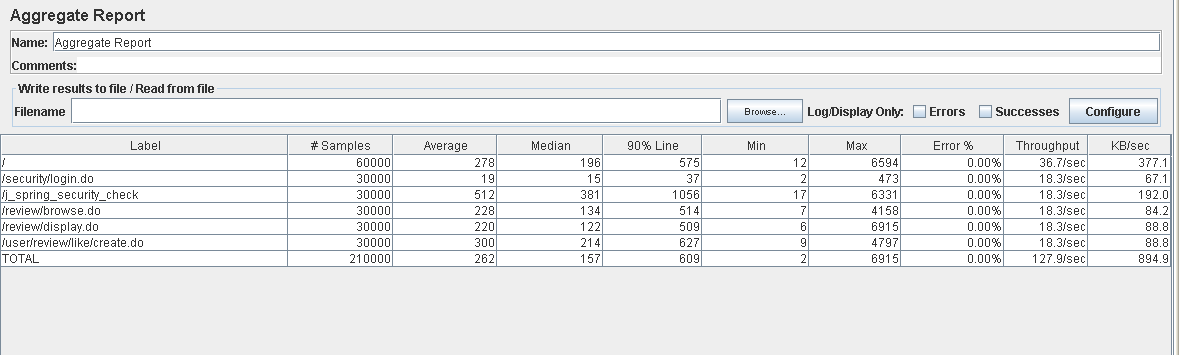


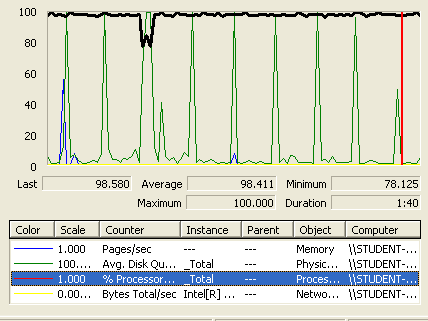




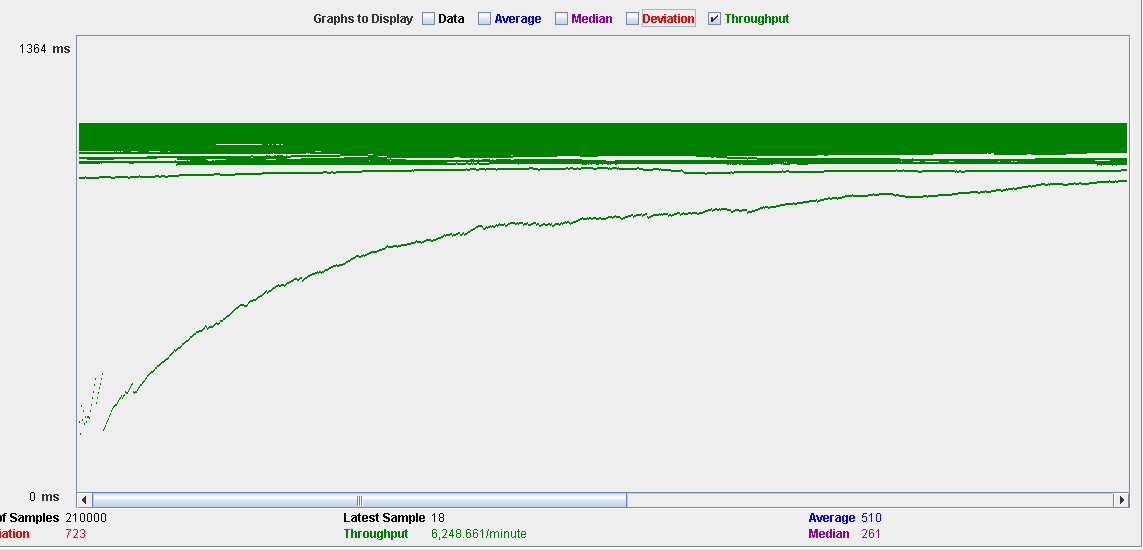
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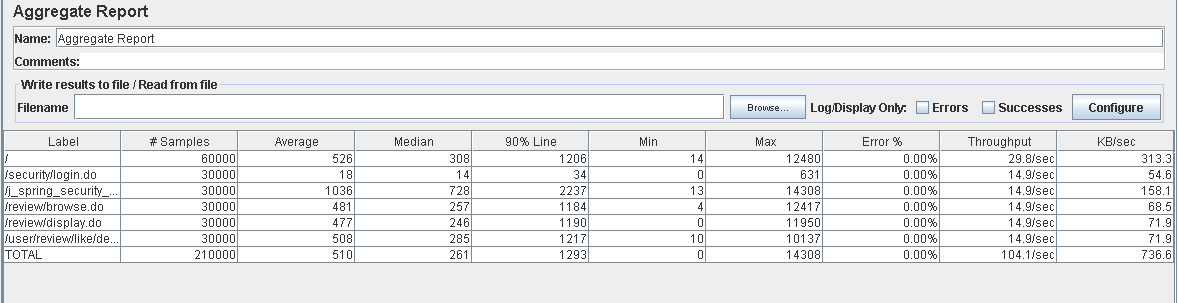


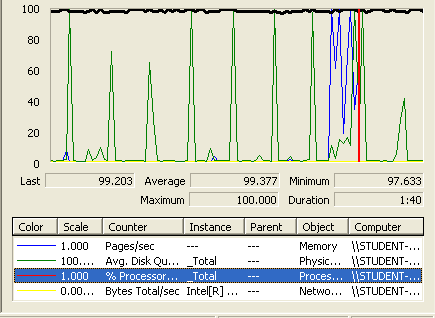




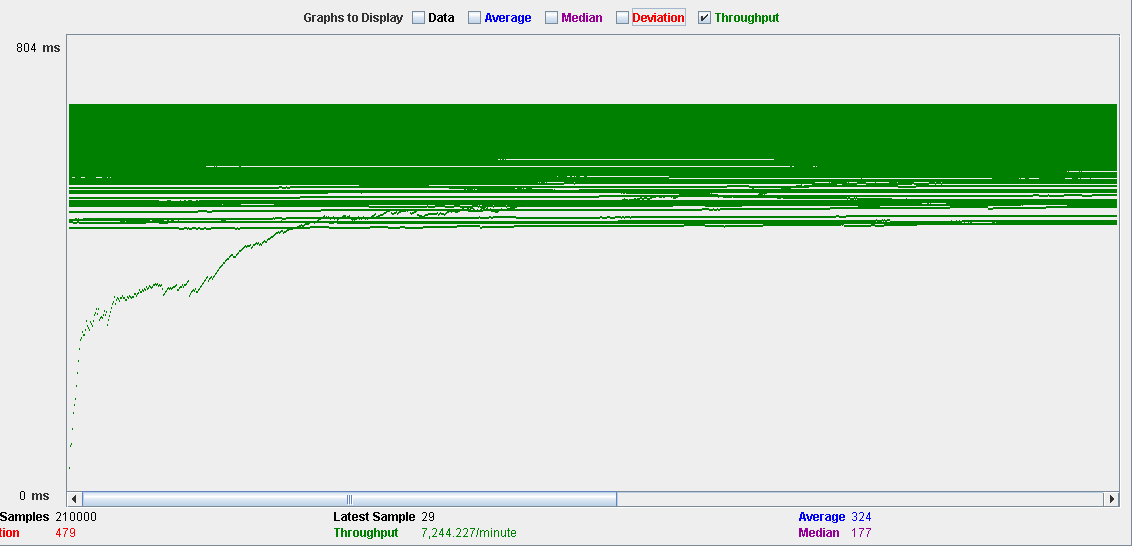
# Unlike a Review

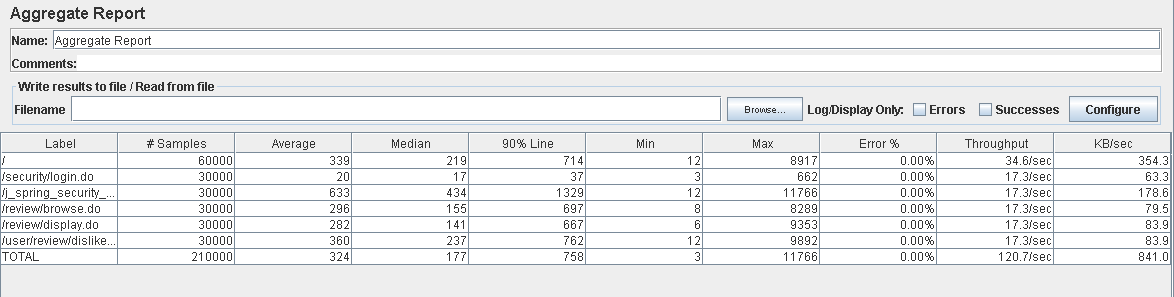


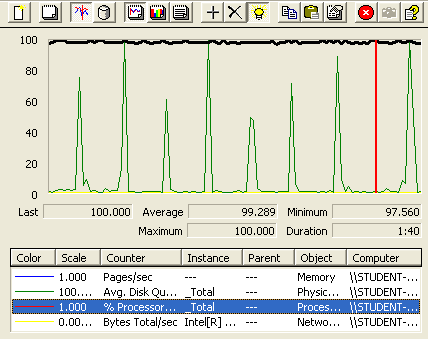




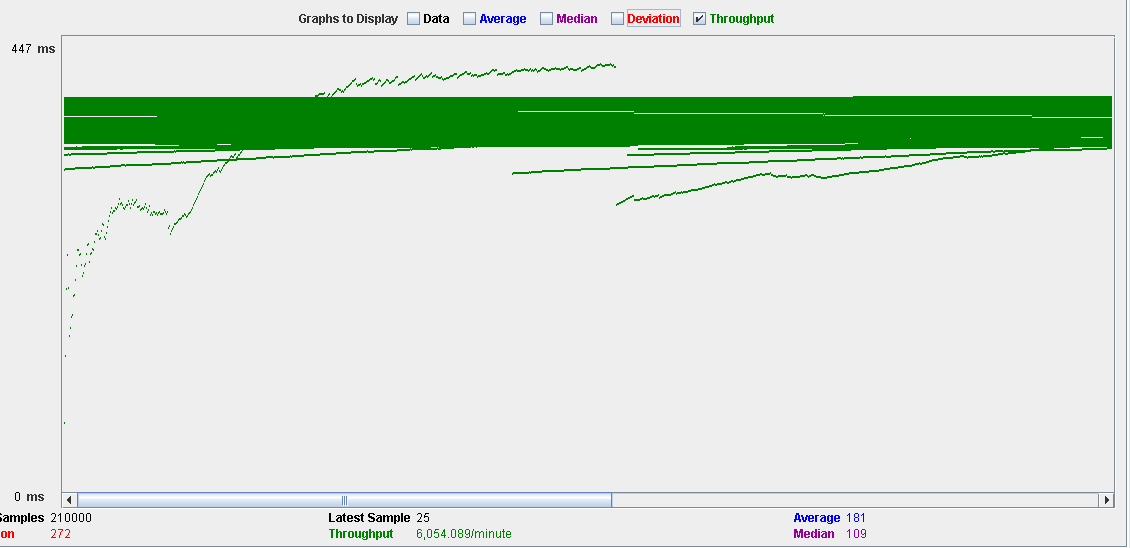
# Dislike a Review

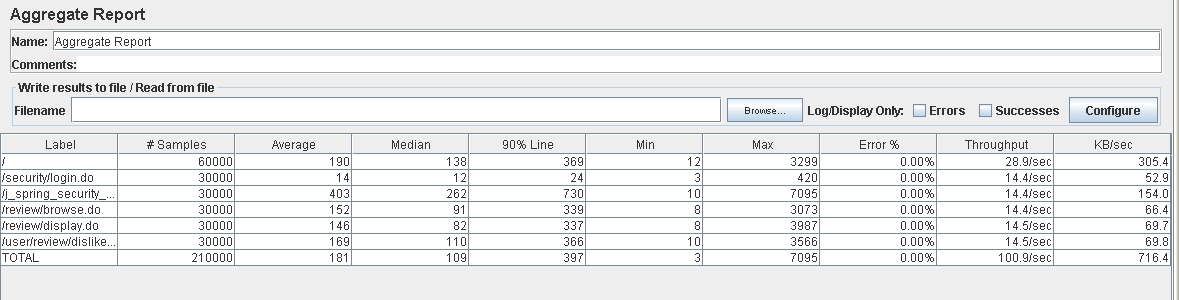


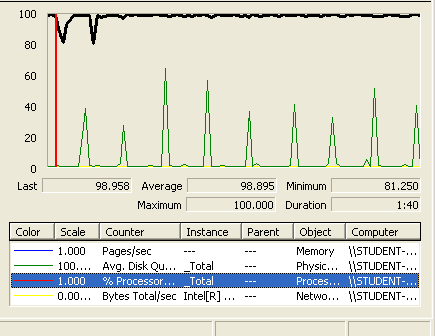




# Un-dislike a review

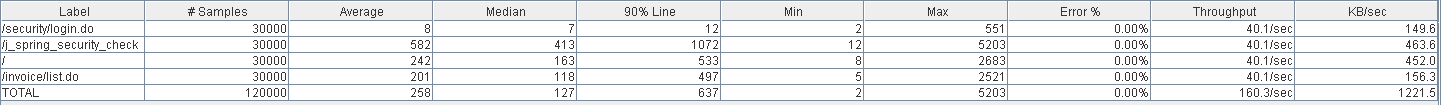


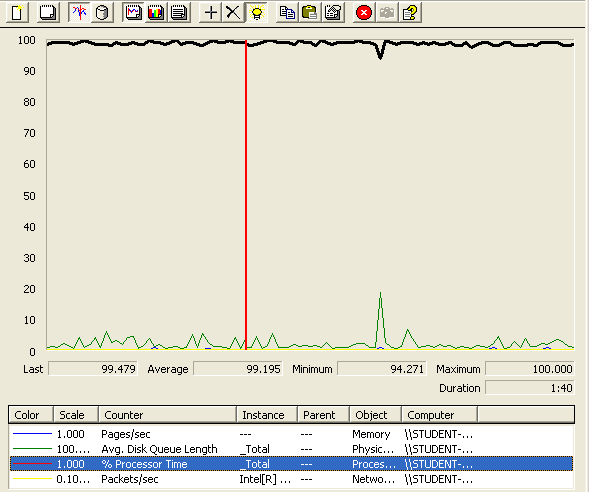




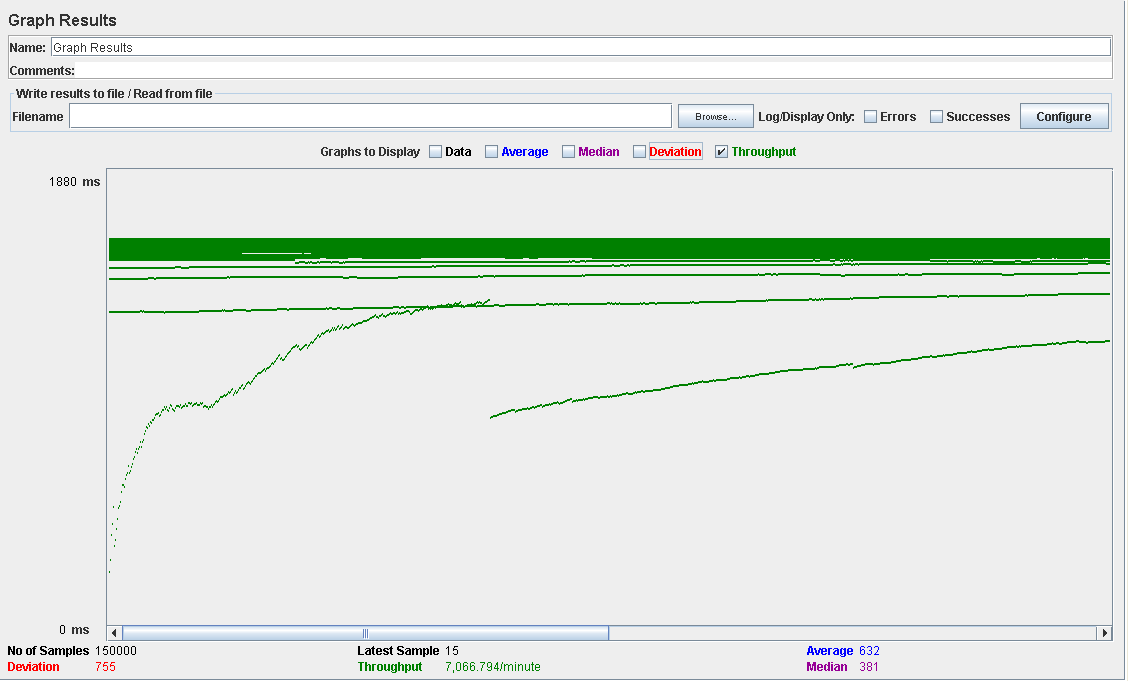
# List invoices

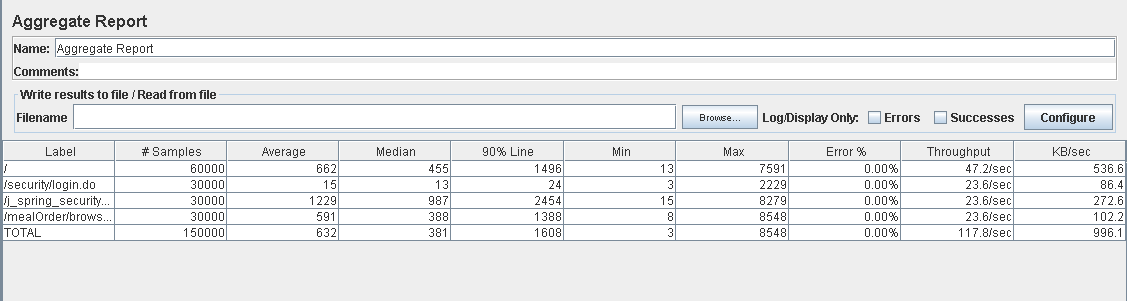


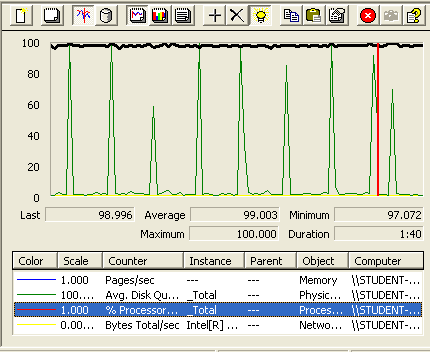




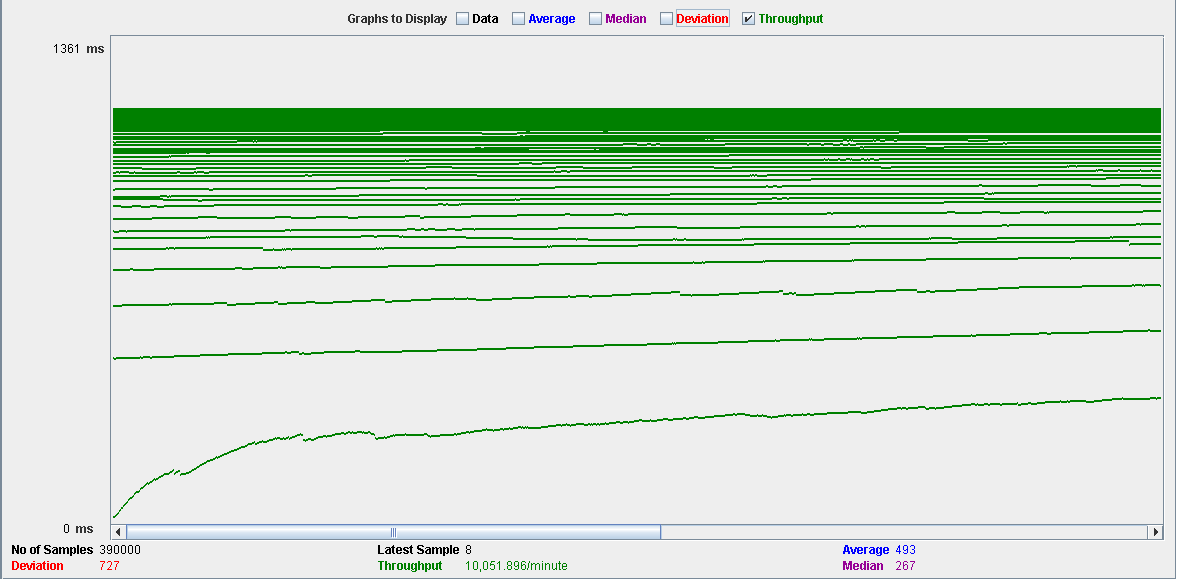
# List orders

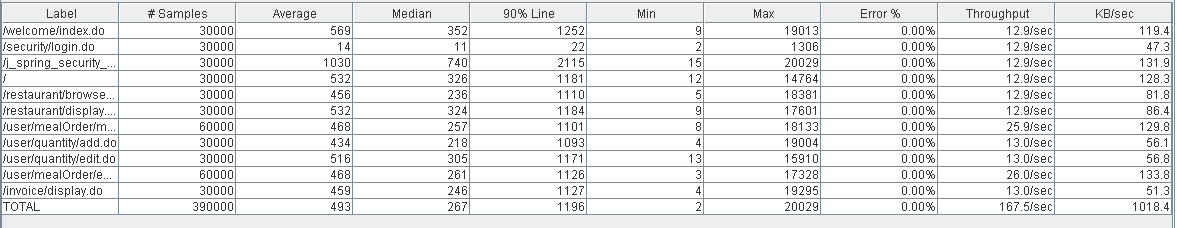


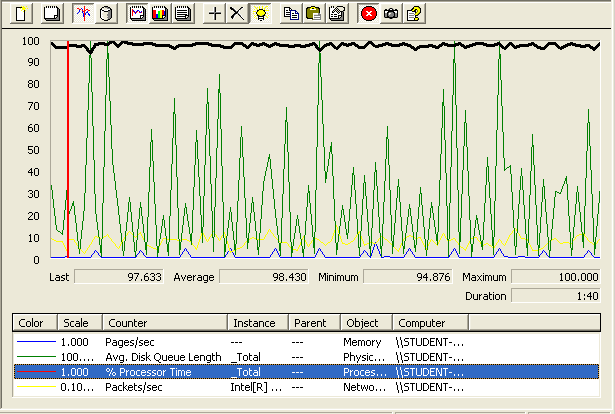




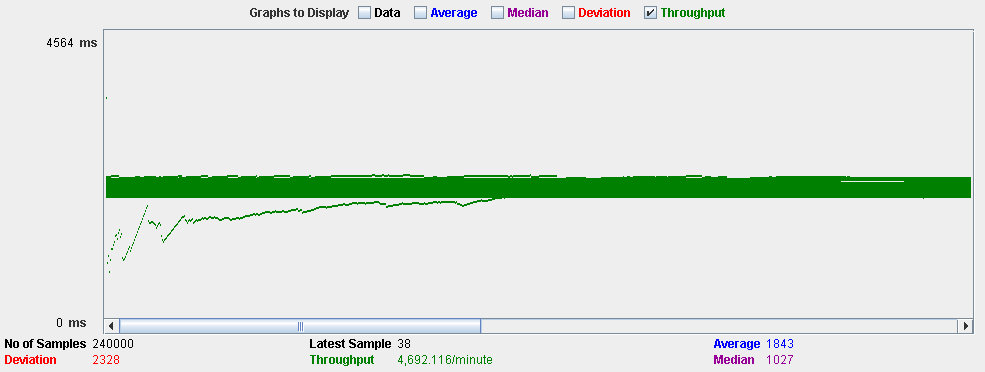
# Make order

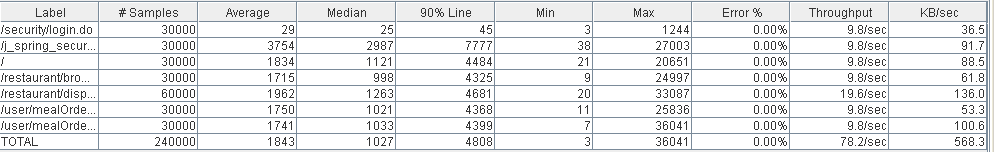


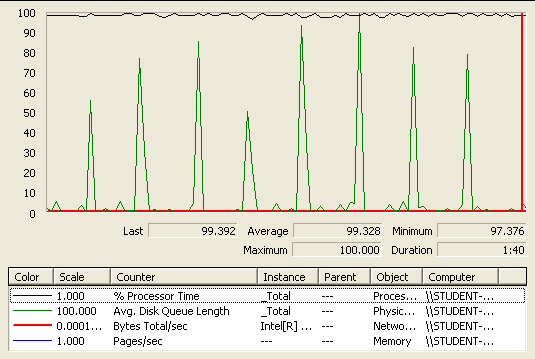




# Delete order

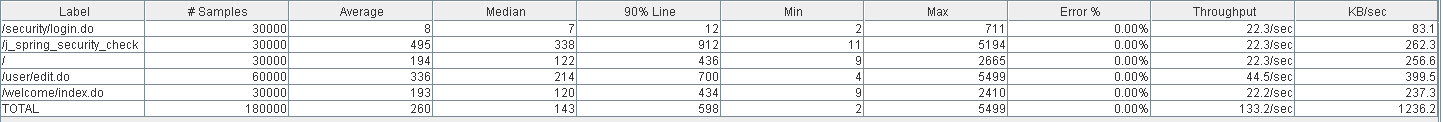


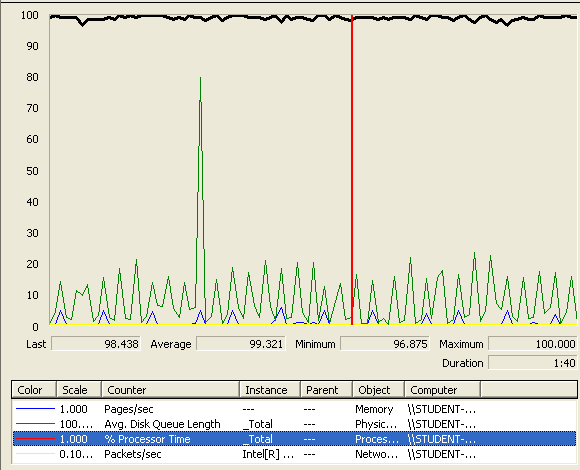




# Edit user profile

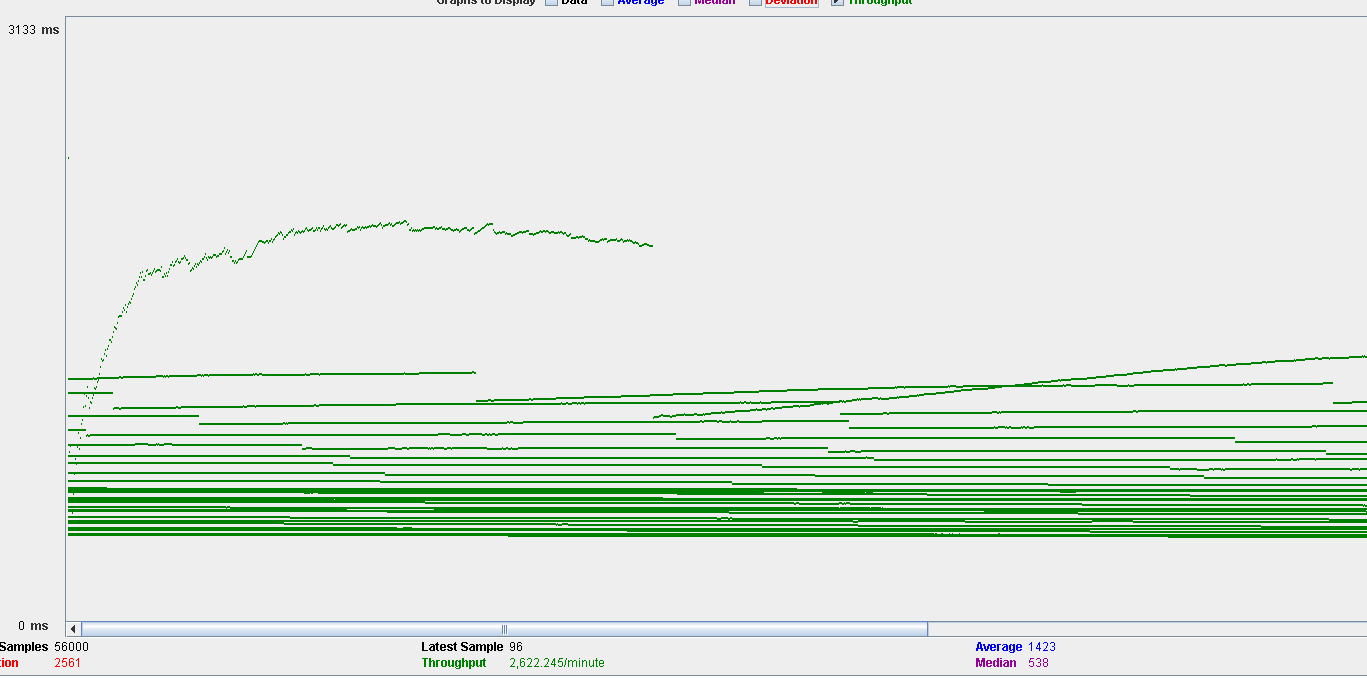


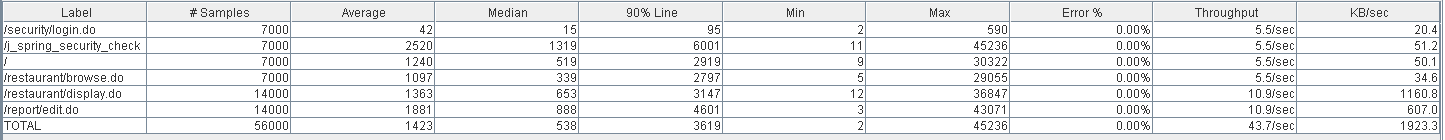


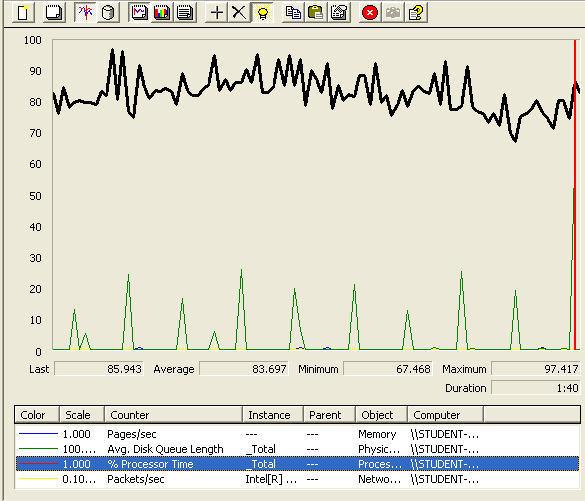


# Report a comment as user

Para realizar el test de “Report a Comment as User” hemos tenido que realizarlo con 100 usuarios y 70 loops, con 150-200 funcionaba correctamente, pero al realizar bastantes reports la máquina empezaba a ralentizarse llegando a bloquearse.

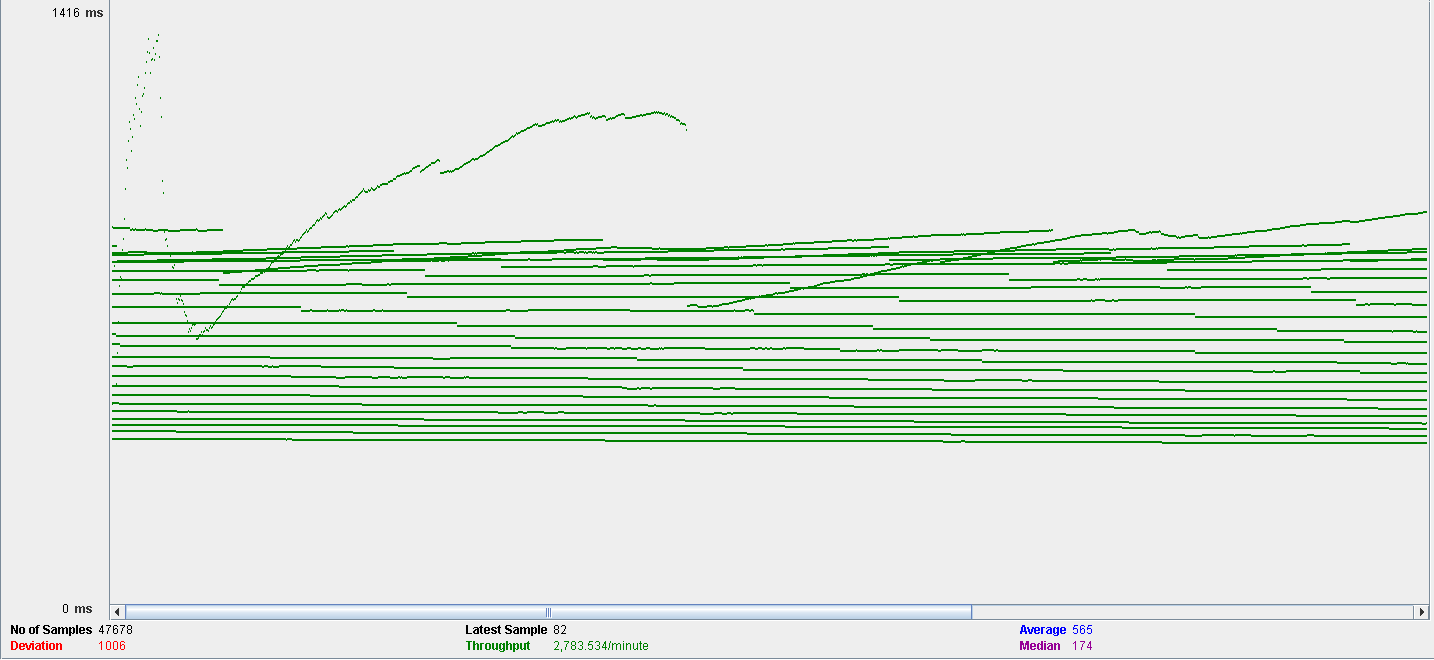


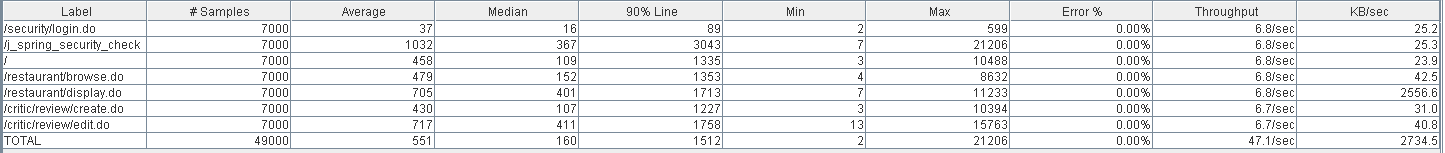


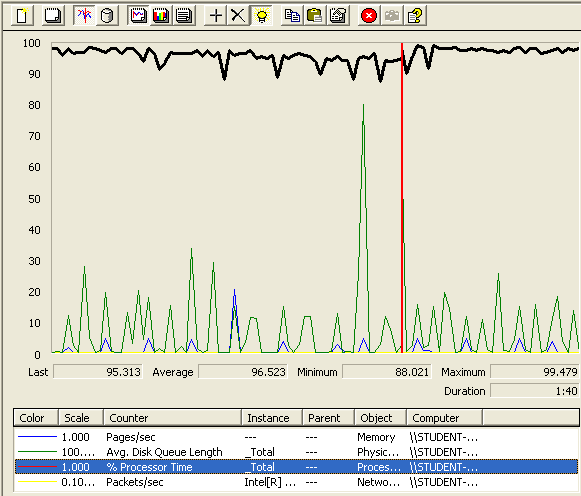


# Create Review

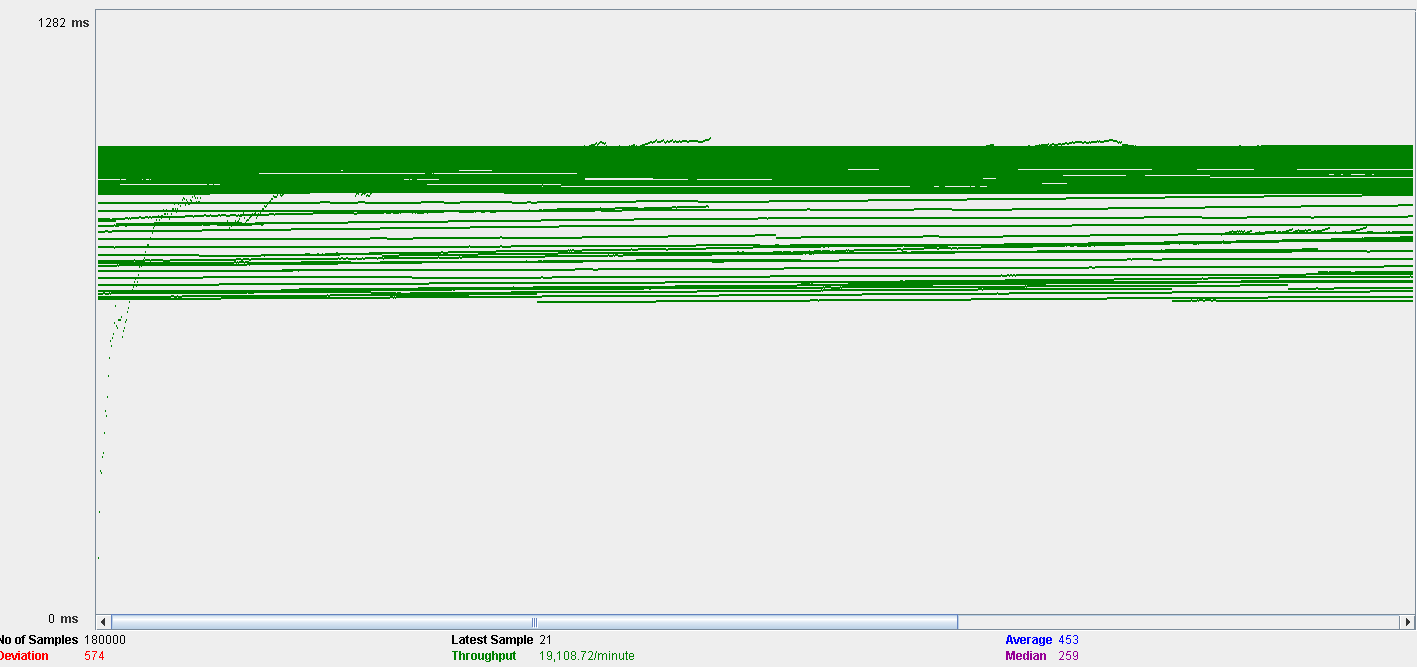
Para realizar el test de “Create Review” hemos tenido que realizarlo con 100 usuarios y 70 loops, con 150-200 funcionaba correctamente, pero al realizar bastantes “Reviews” la máquina empezaba a ralentizarse llegando a bloquearse.

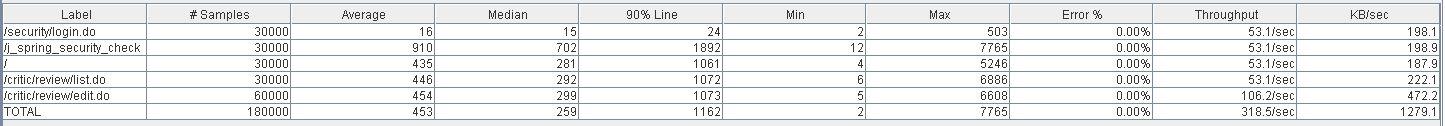


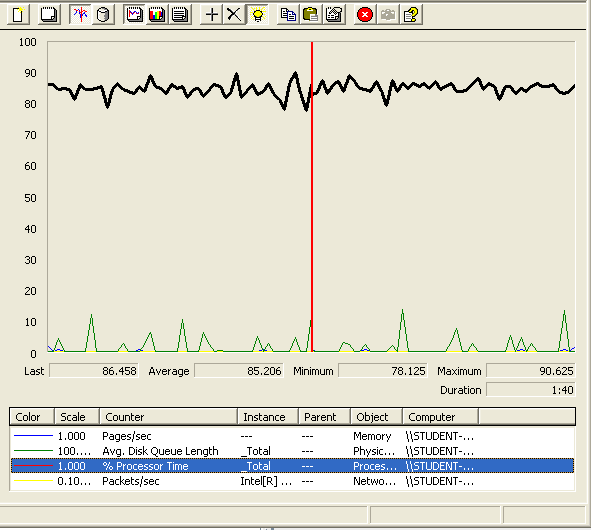




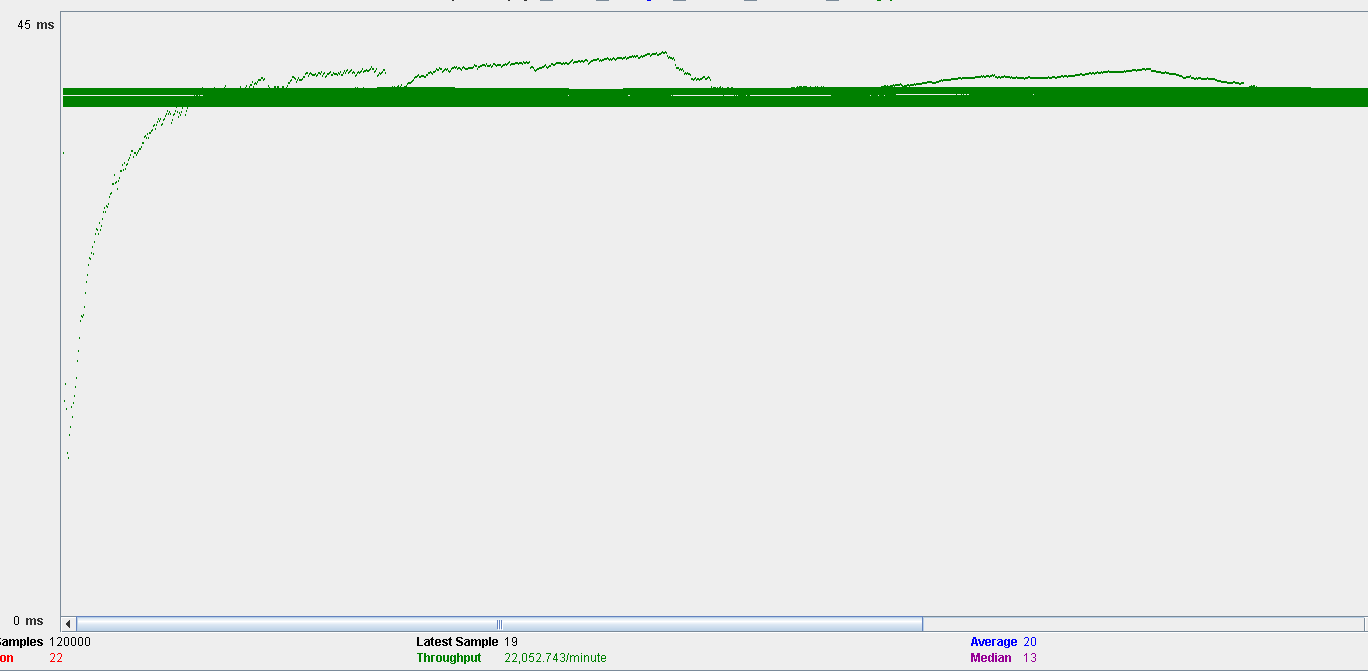
# List and edit a review

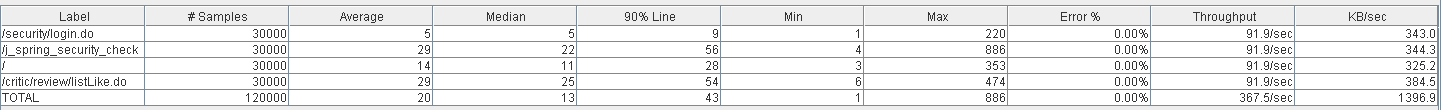


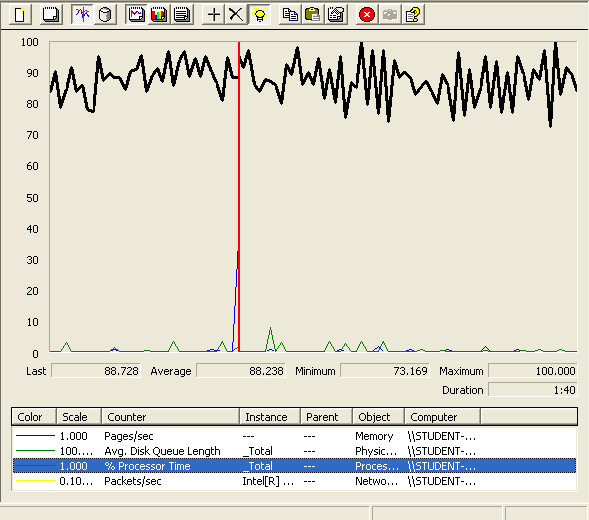




# List reviews by likes

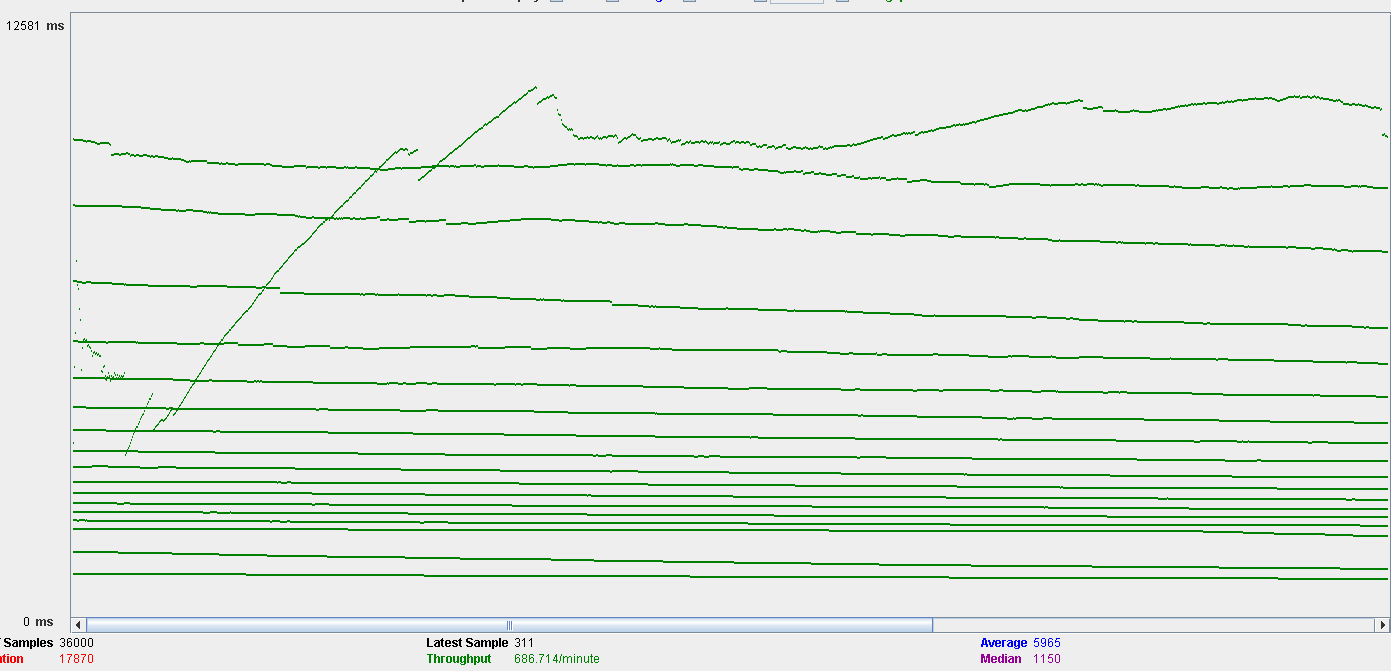


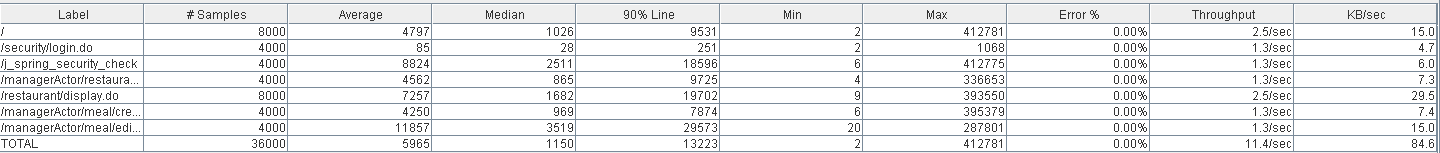


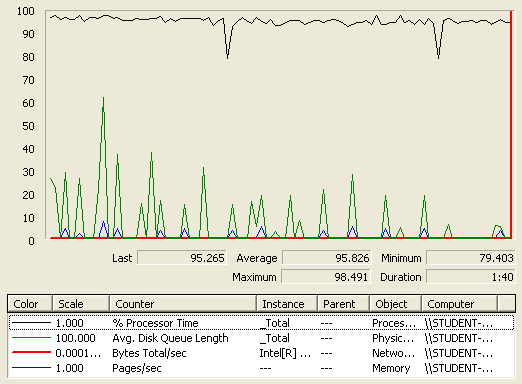


# Create meal

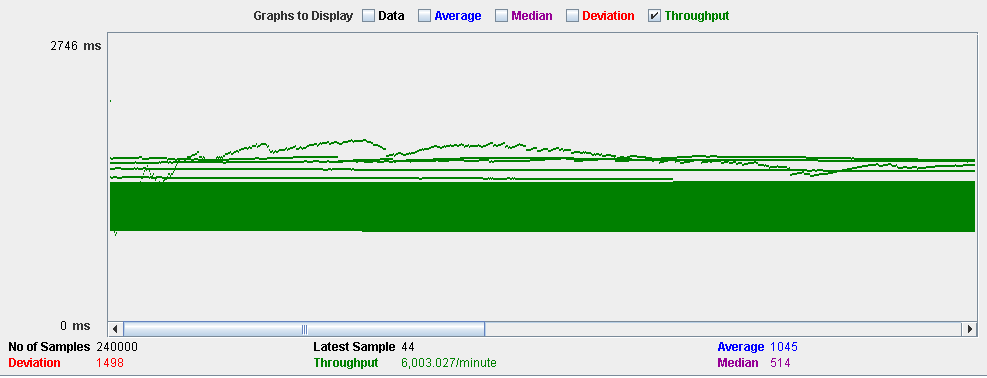
Para realizar el test de “Create Meal” hemos tenido que realizarlo con 80 usuarios y 50 loops. Esto es debido a que para realizar “Create Meal” debemos de hacer un listado de todas la Meals, cuando llevan un gran número creado se bloquea la máquina.

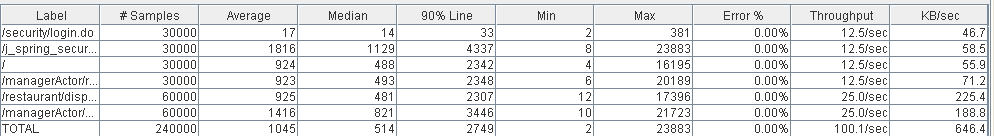


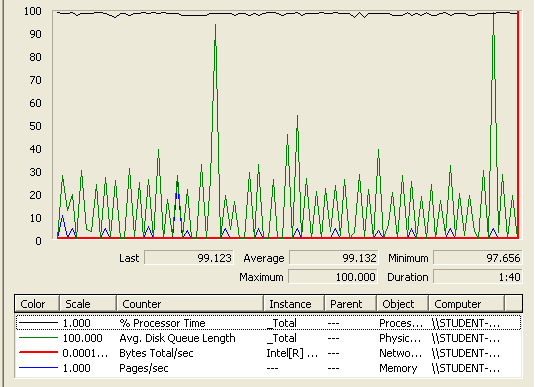




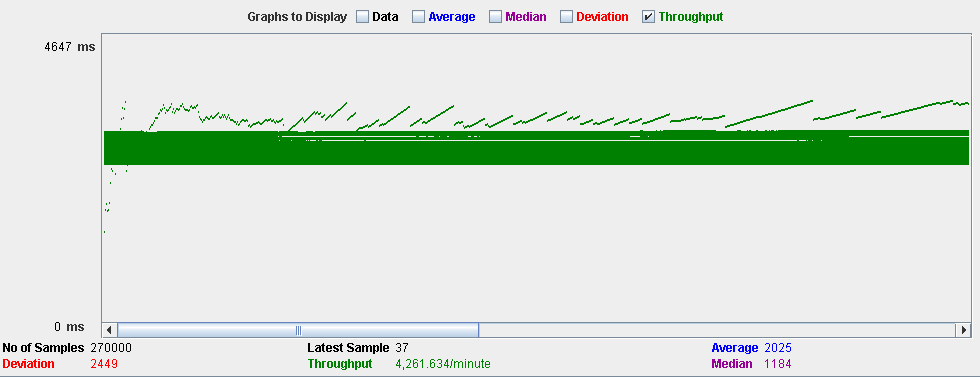
# List and edit meal

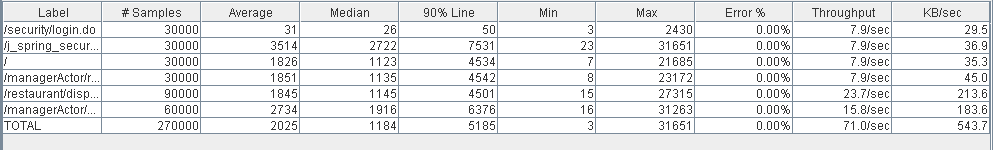


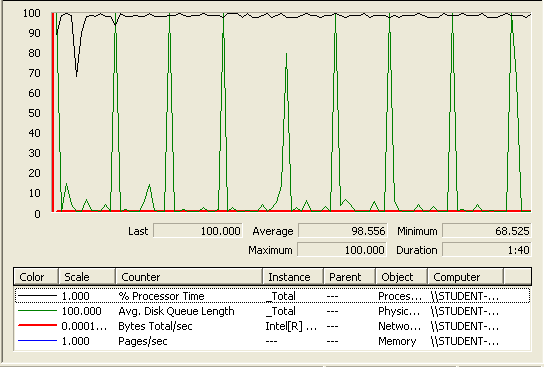




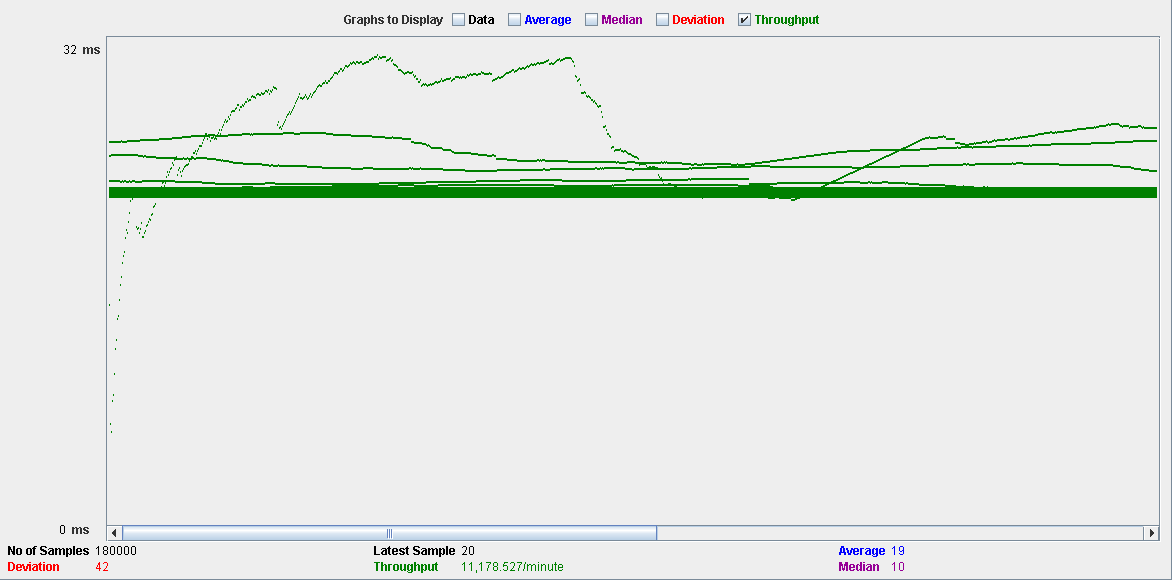
# Disable and enable meal

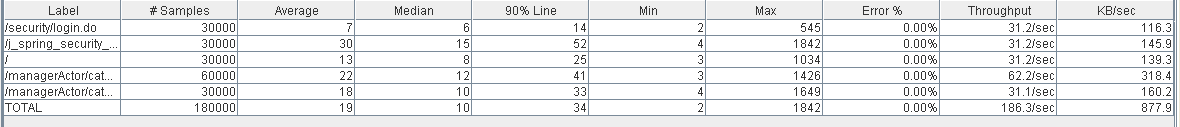


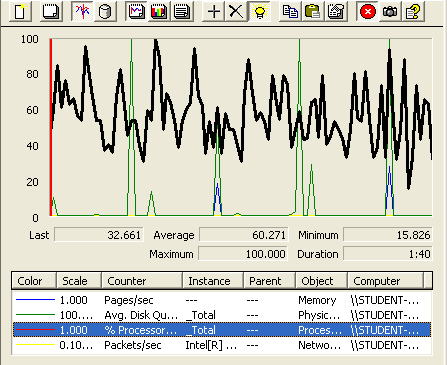




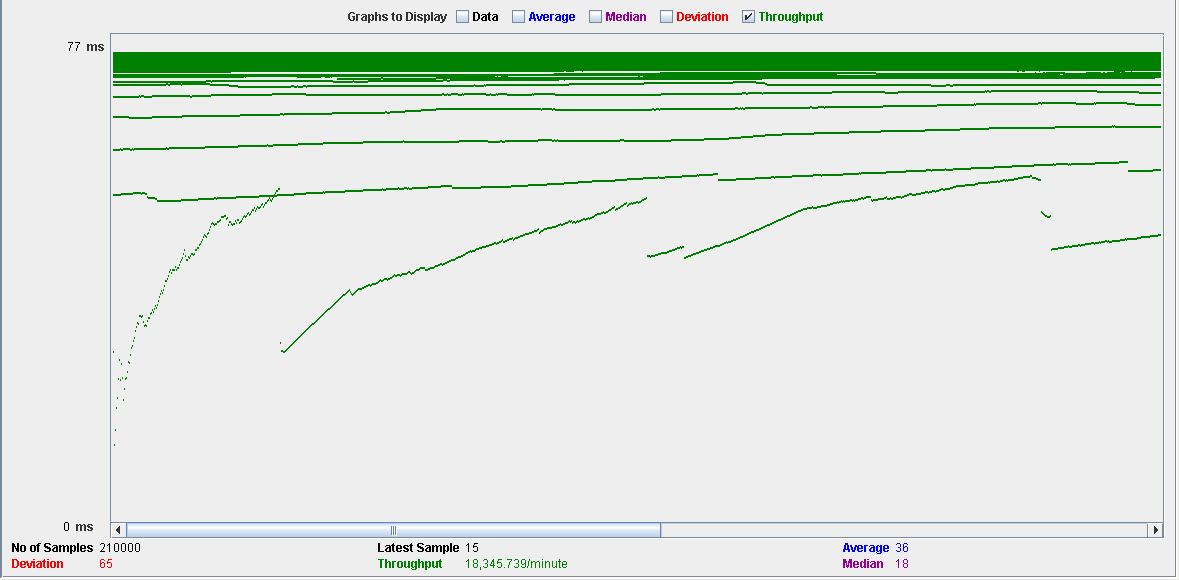
# Create category

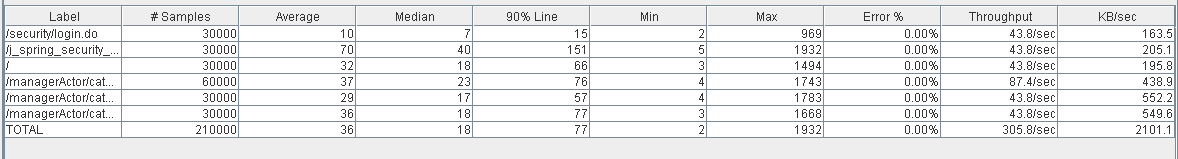


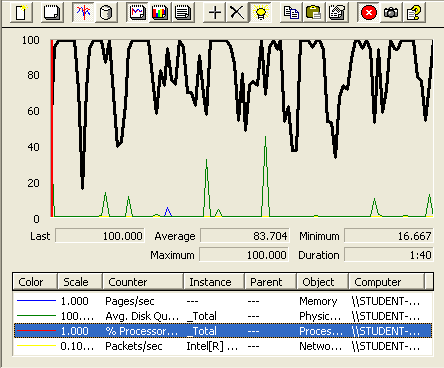




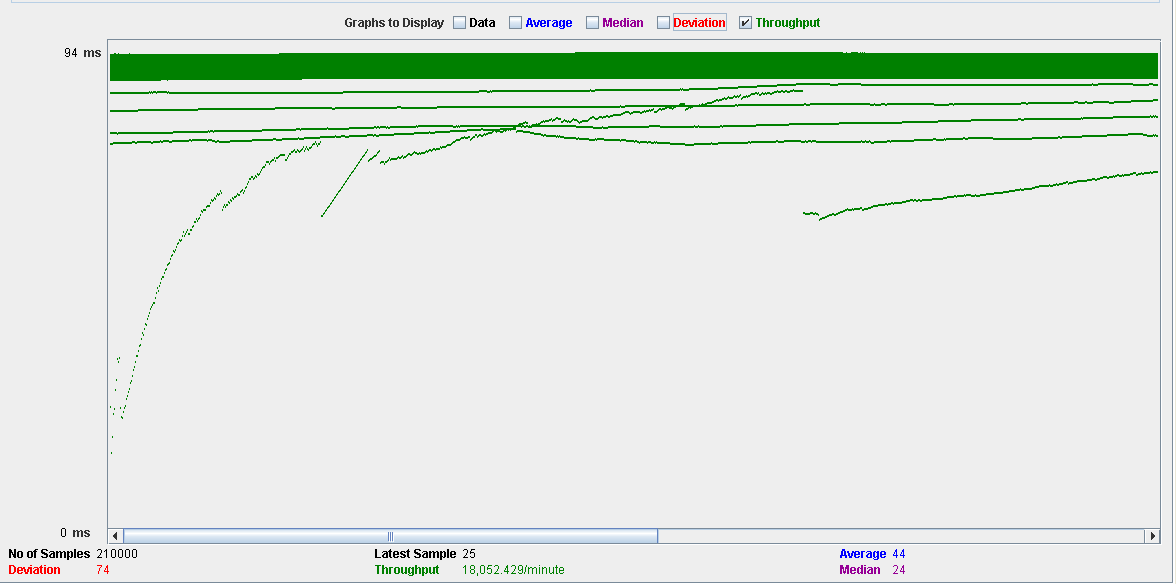
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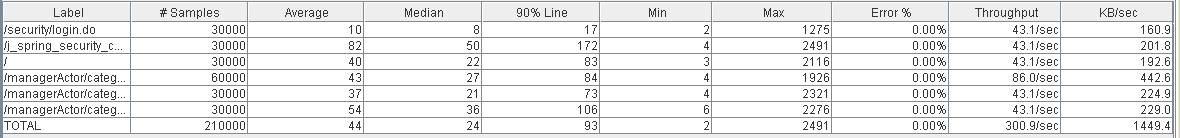


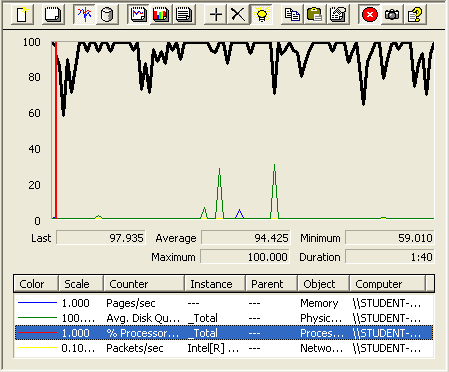




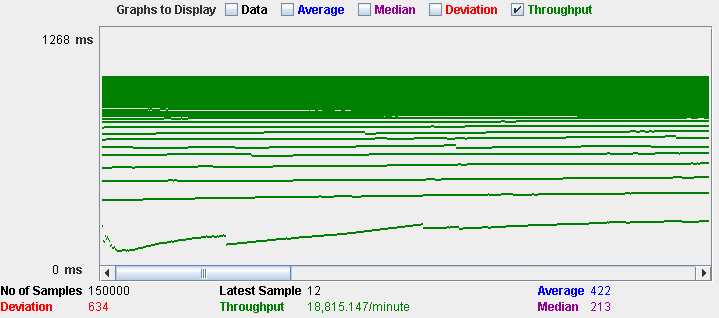
# List and edit category

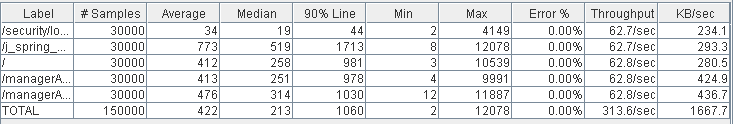


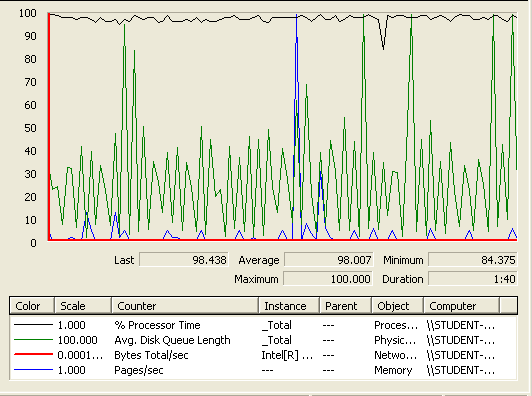




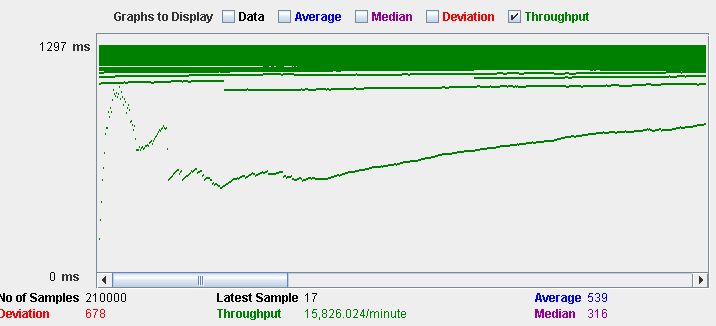
# Create restaurant

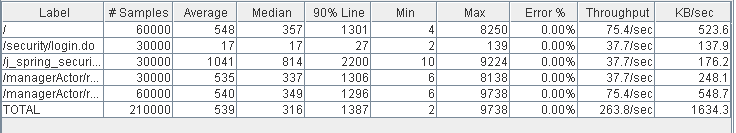


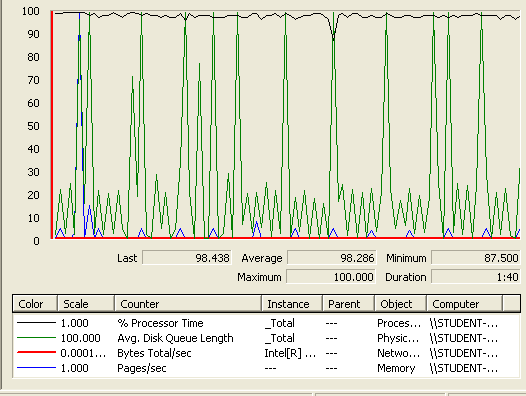




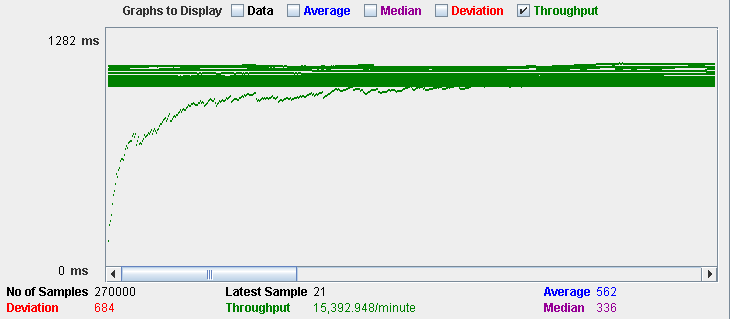
# List and edit restaurant

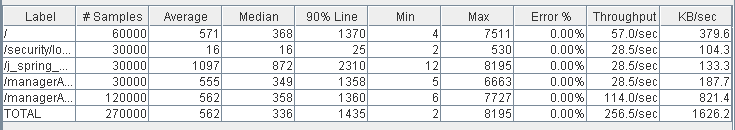


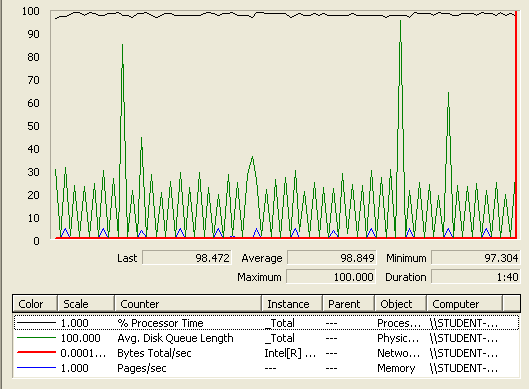




# Disable and enable restaurant

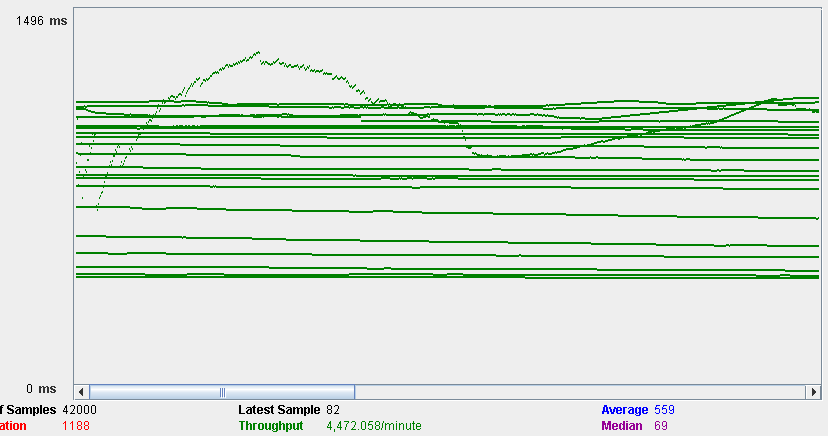


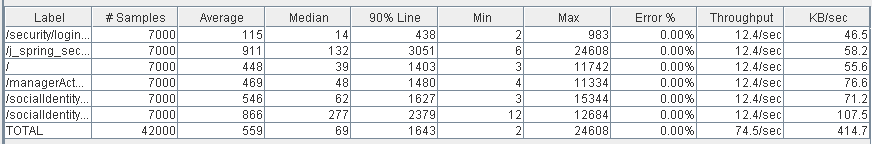


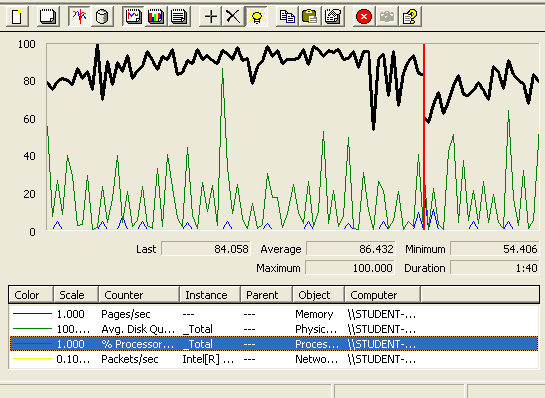


# Create Social Identity

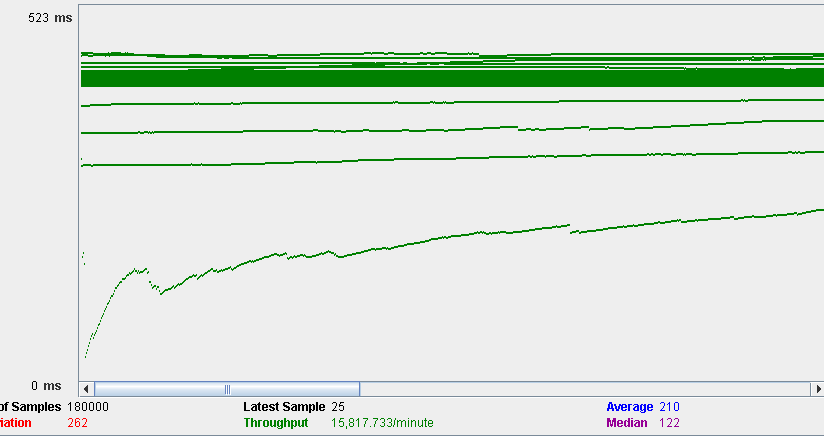
Para realizar el test de “Create Social Identity” hemos tenido que realizarlo con 70 usuarios y 100 loops. Esto es debido a que para realizar “Create Social Identity” debemos de hacer un listado de todas la Social Identity, cuando llevan un gran número creado se bloquea la máquina

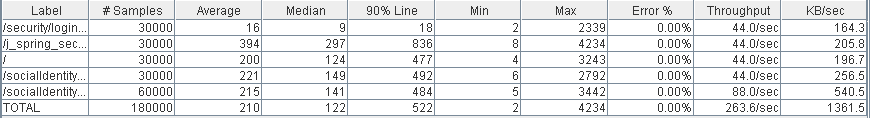


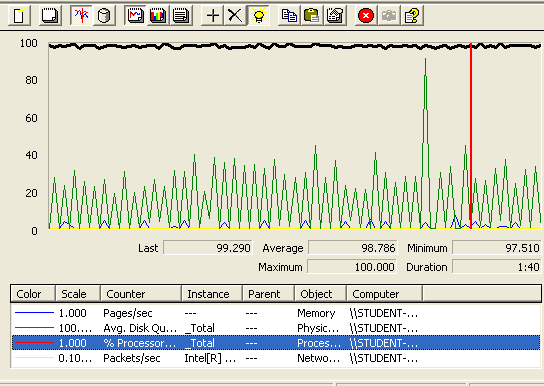




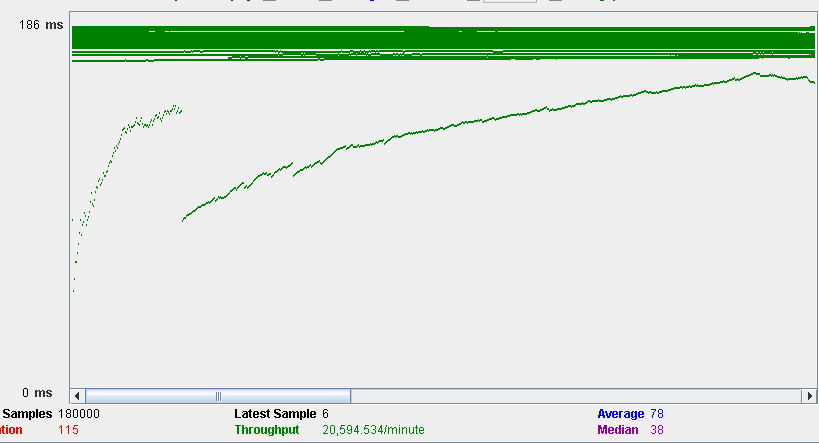
# Edit Social Identity

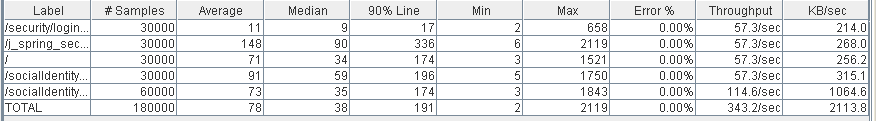


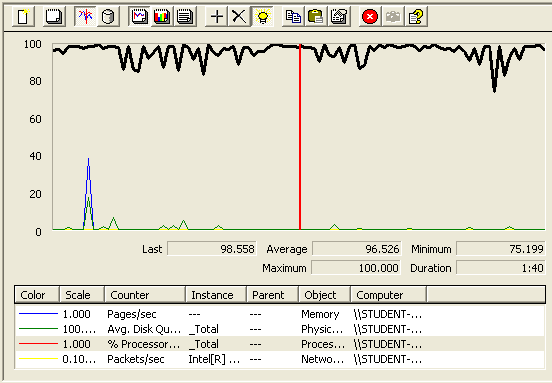




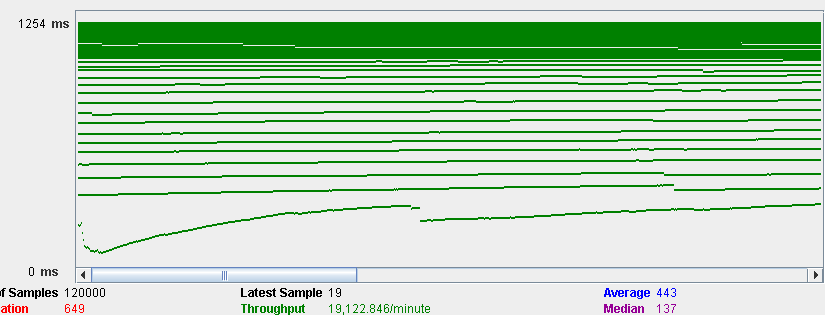
# Delete Social Identity

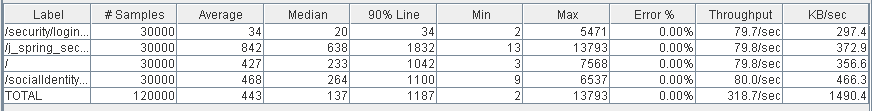


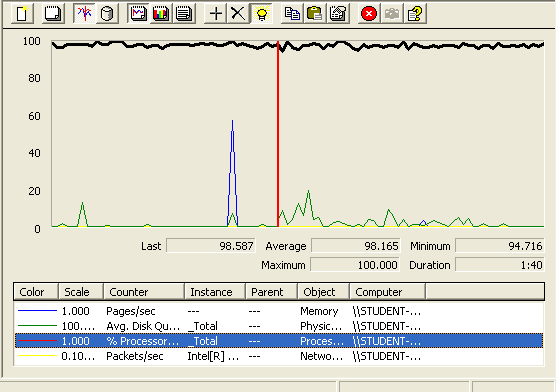




# List Social Identity

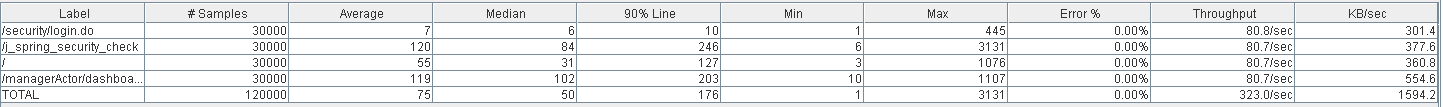


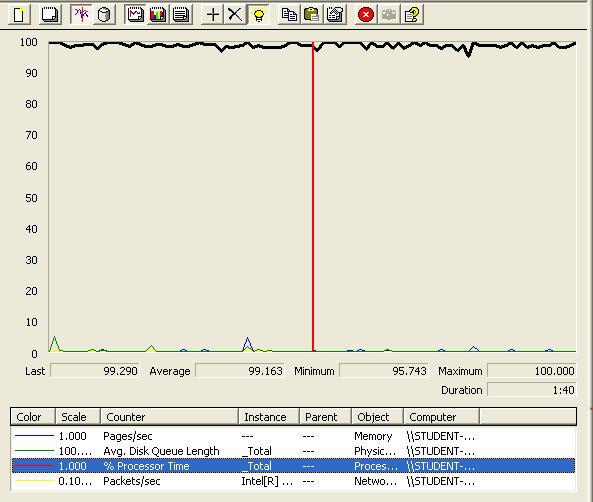




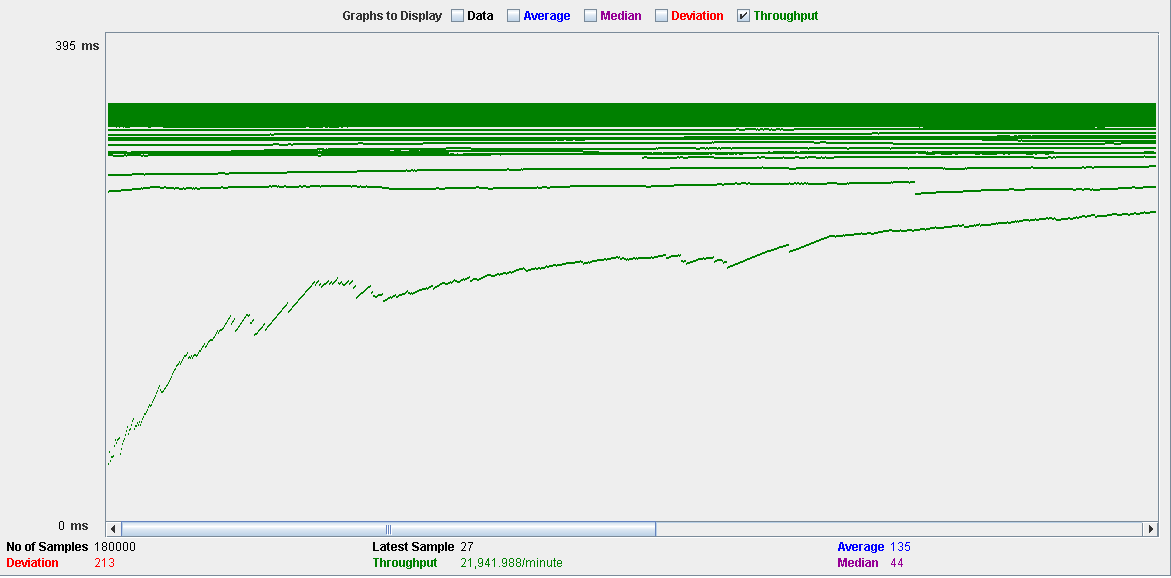
# Dashboard

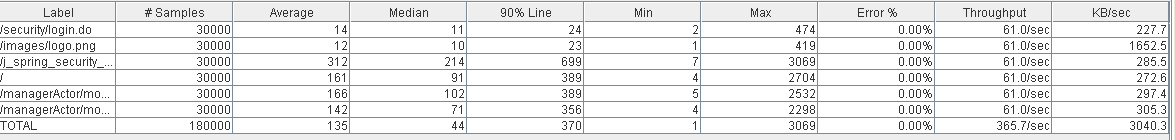


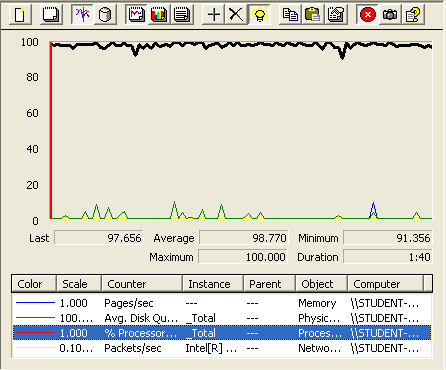




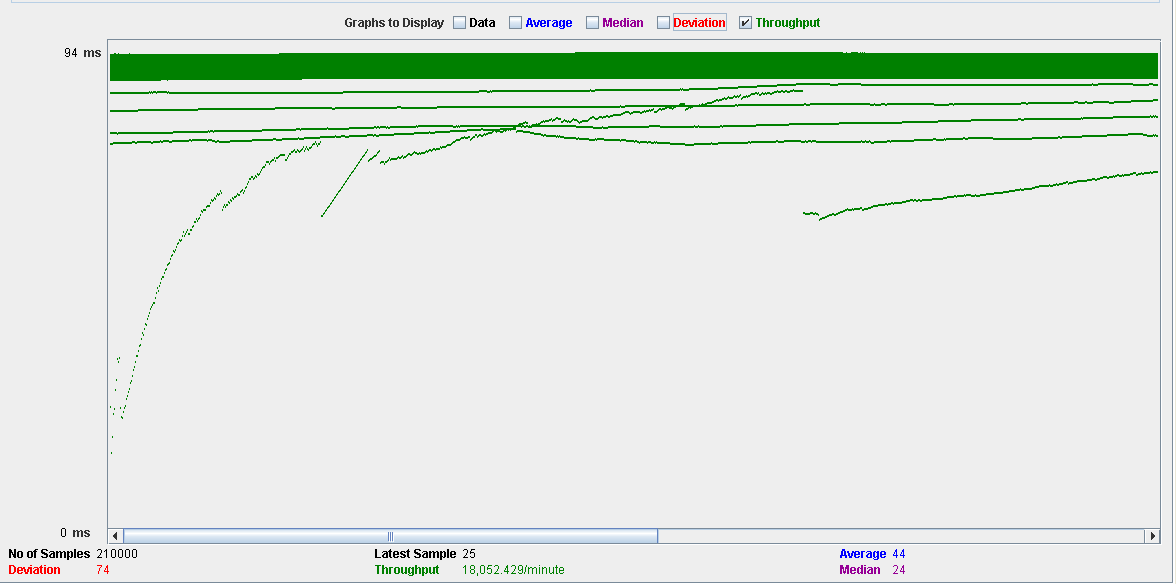
# List and display monthlybills

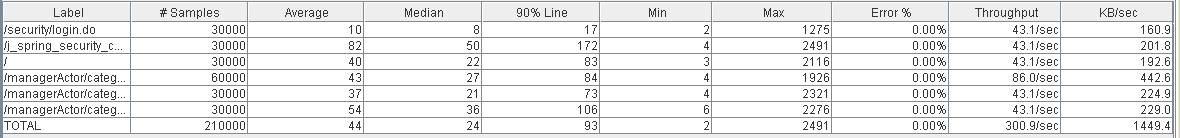


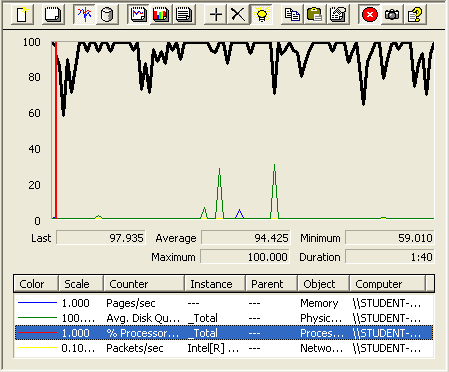




# Manage orders

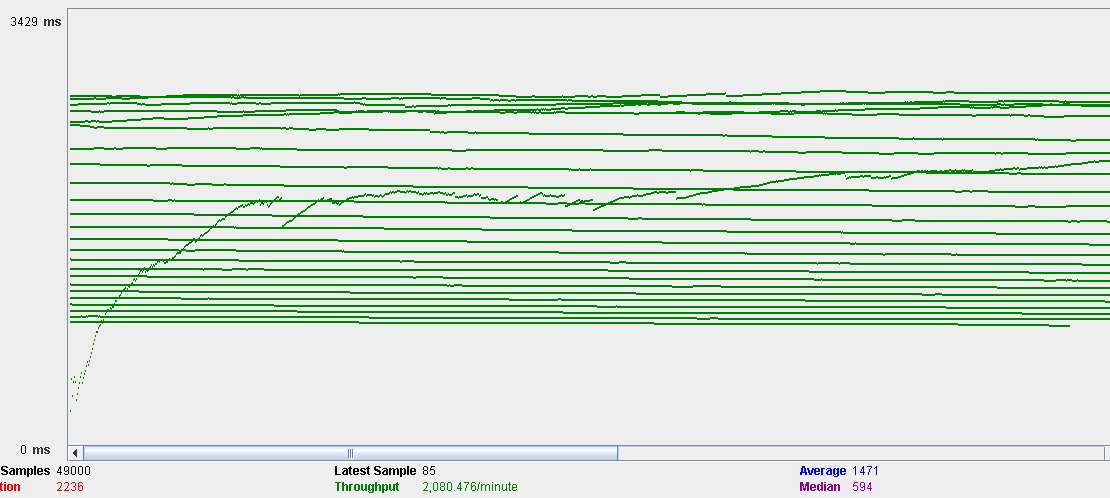


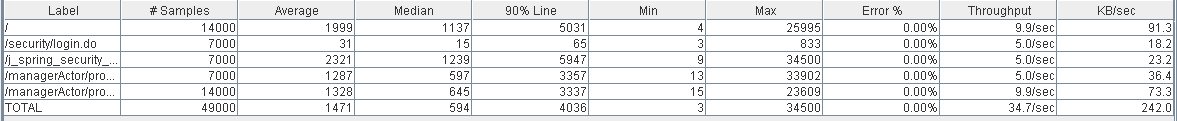


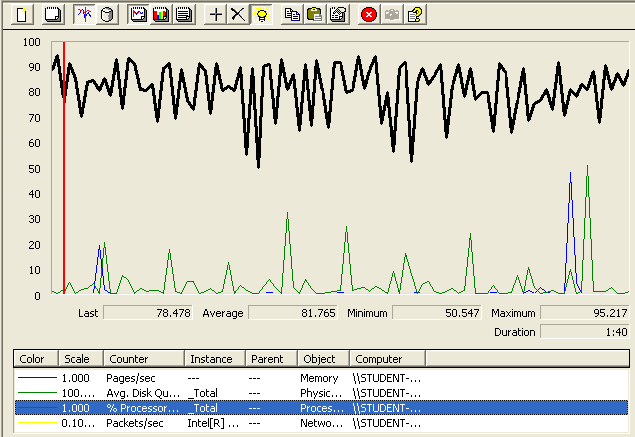


# Promote a restaurant

Para realizar el test de “Promote a Restaurant” hemos tenido que realizarlo con 100 usuarios y 70 loops. Esto es debido a que para realizar “Promote a Restaurant” debemos de hacer un listado de todas la Promotes, cuando llevan un gran número creado se bloquea la máquina

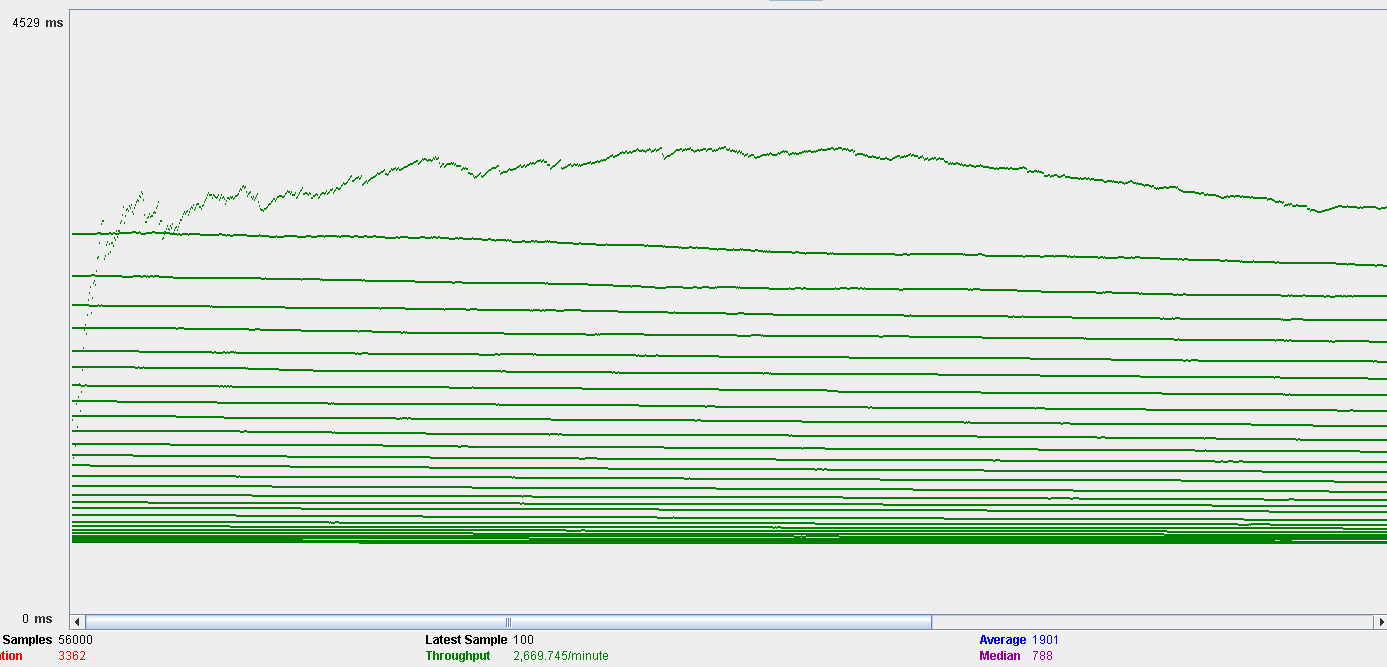


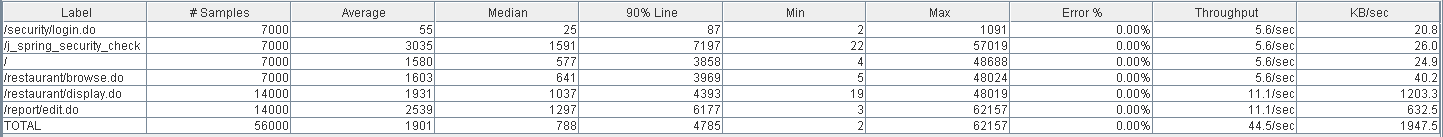


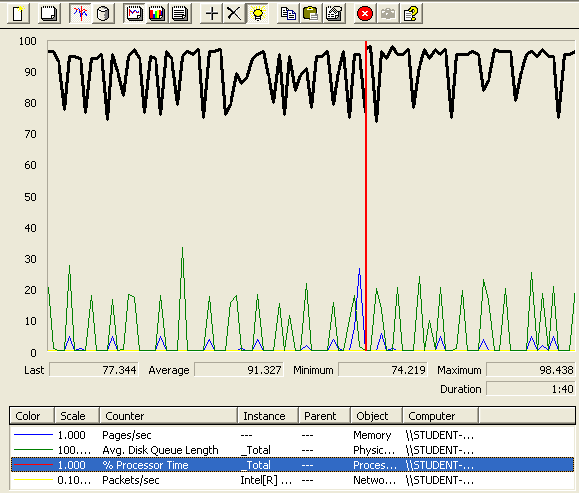


# Report comment as manager

Para realizar el test de “Report a Comment as Manager” hemos tenido que realizarlo con 100 usuarios y 70 loops, con 150-200 funcionaba correctamente, pero al realizar bastantes reports la máquina empezaba a ralentizarse llegando a bloquearse.

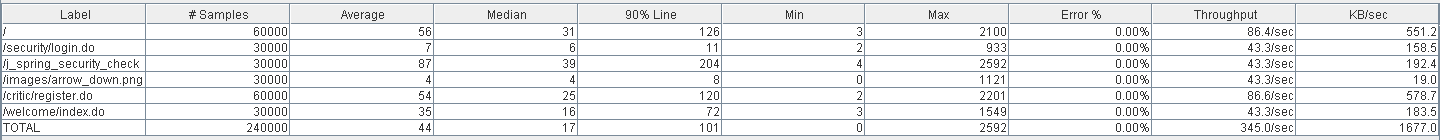


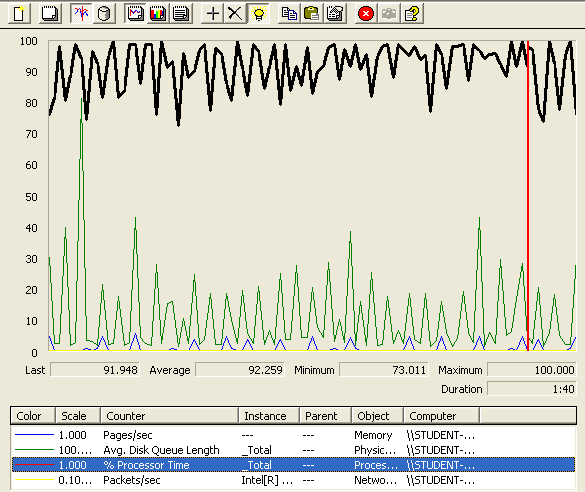




# Register a critic



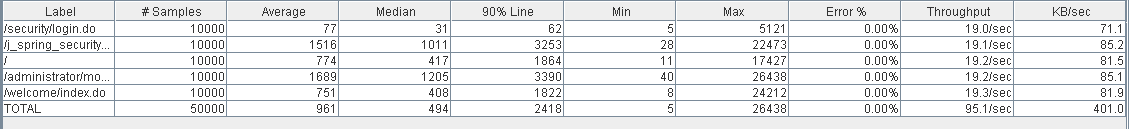


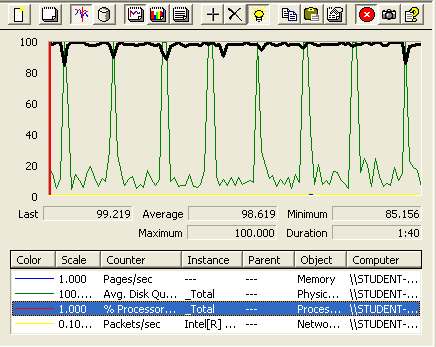


# Generate monthly bills

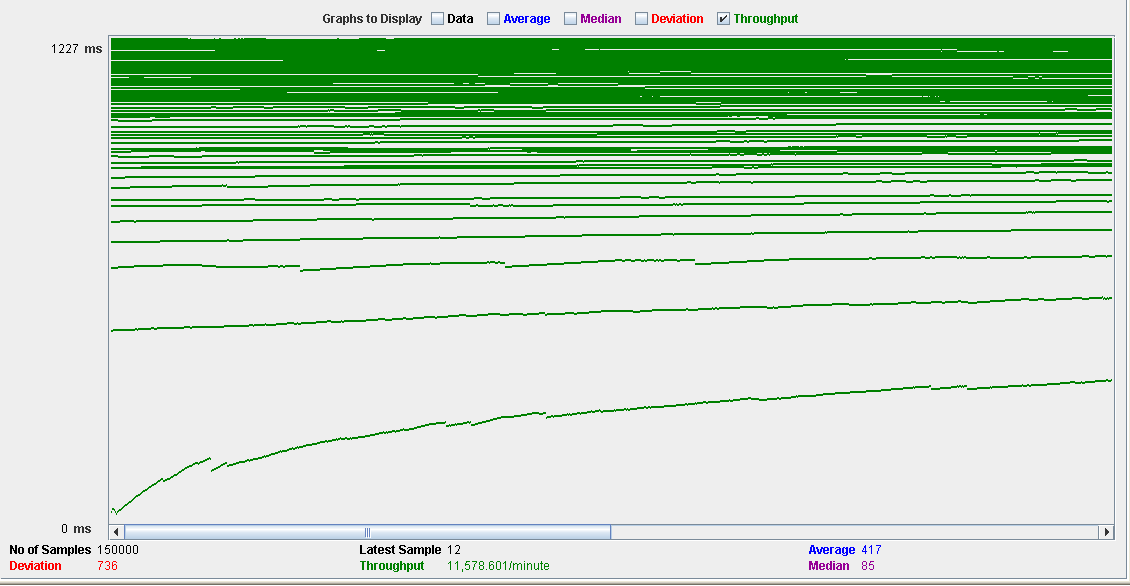
Para realizar el test de “Generate Monthly Bills” hemos tenido que realizarlo con 100 usuarios y 100 loops, con 150-200 funcionaba correctamente, pero al realizar bastantes MontlyBills la máquina empezaba a ralentizarse llegando a bloquearse.

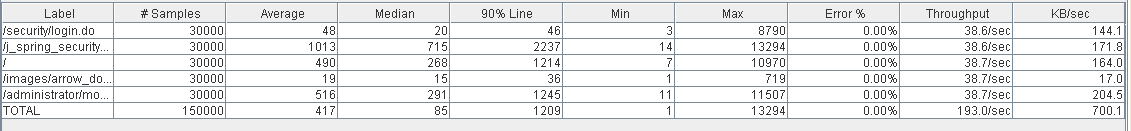


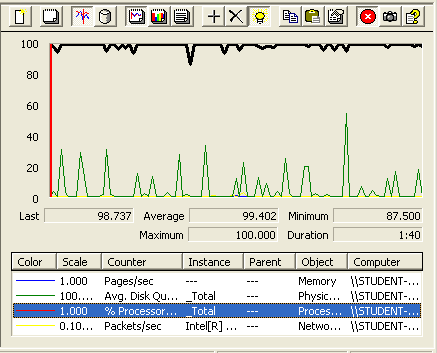




# List monthly bills

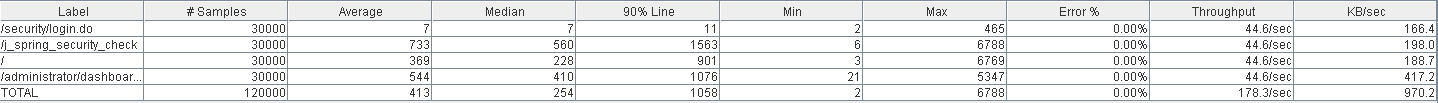


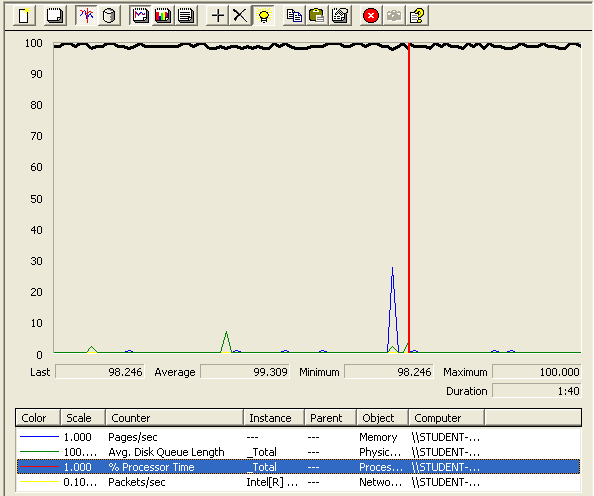




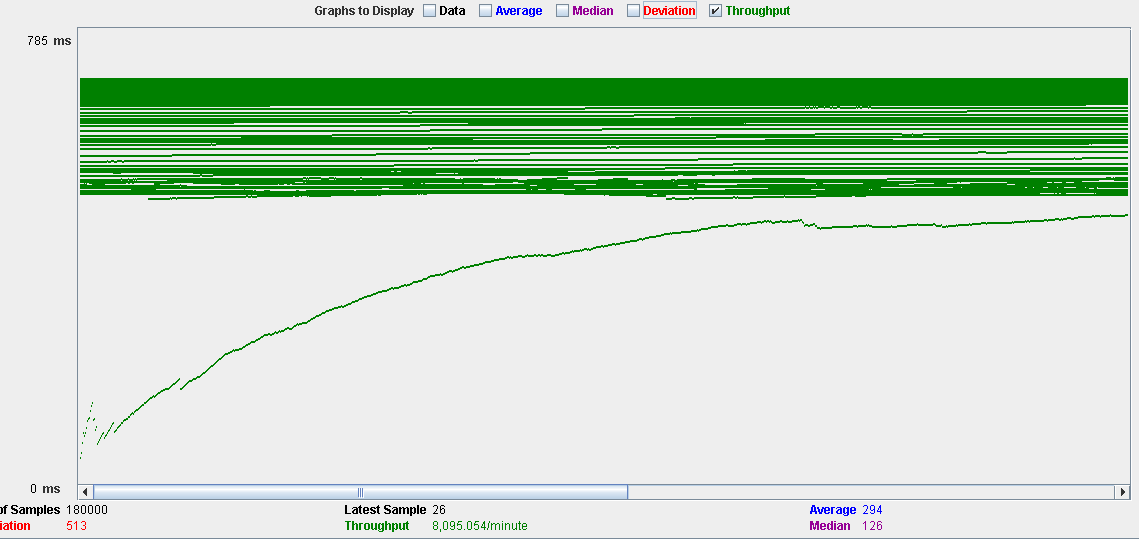
# Dashboard

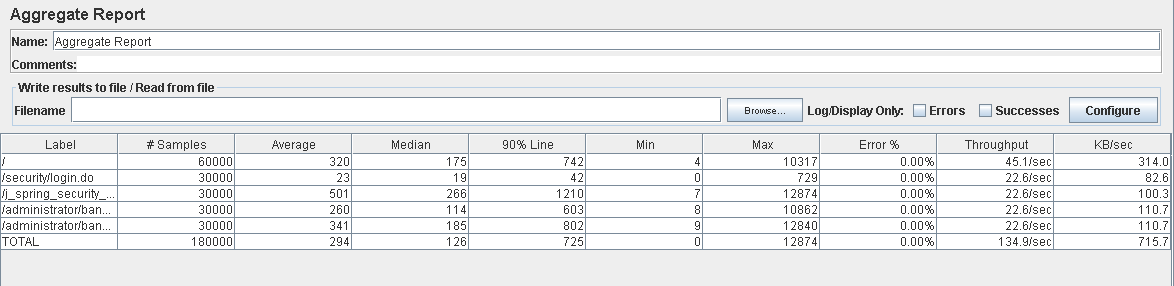


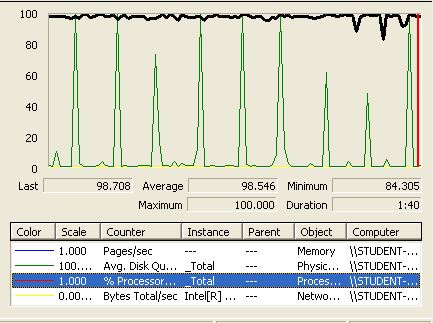




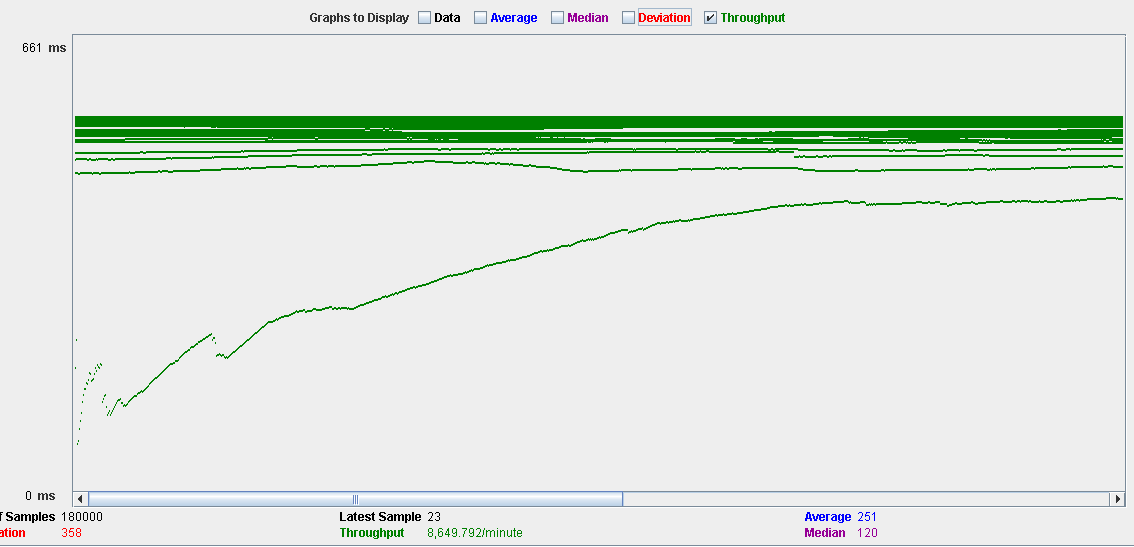
# Ban user

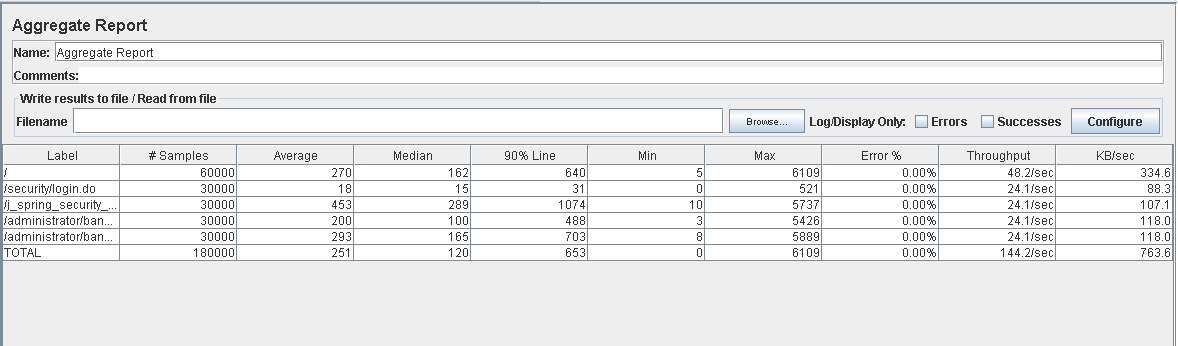


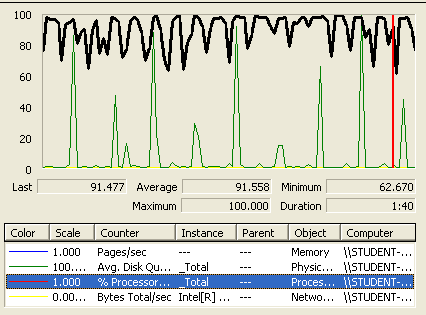




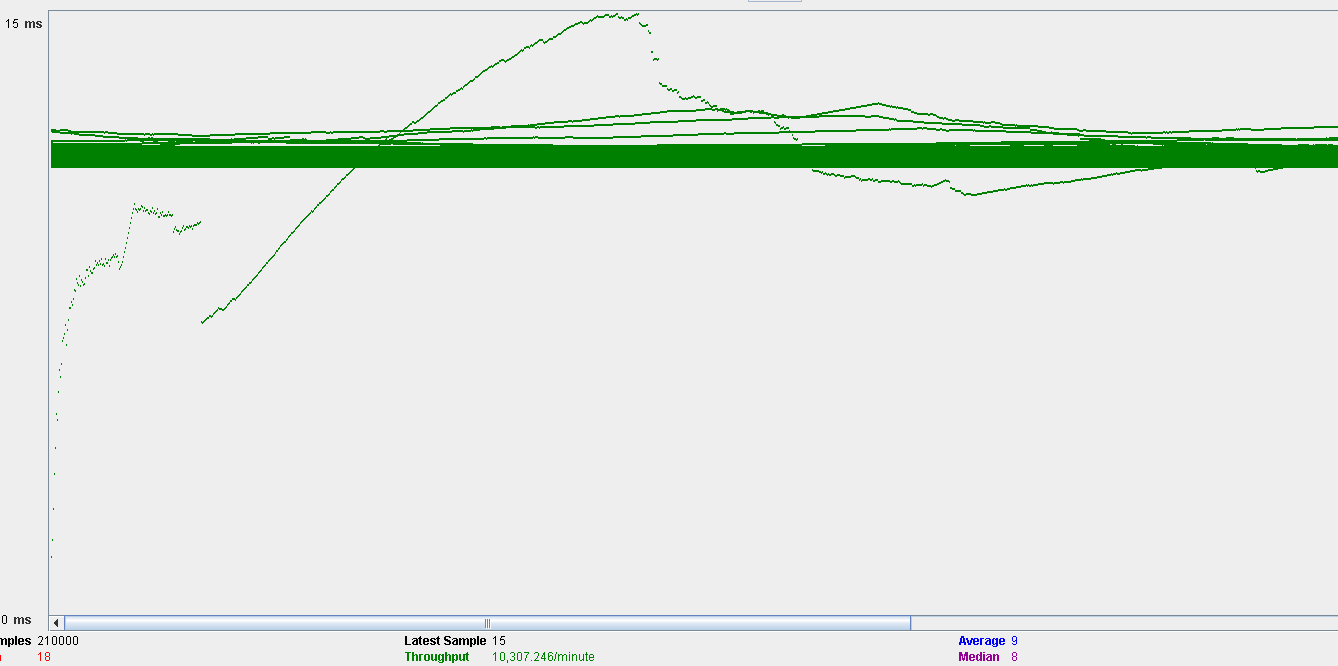
# Unban user

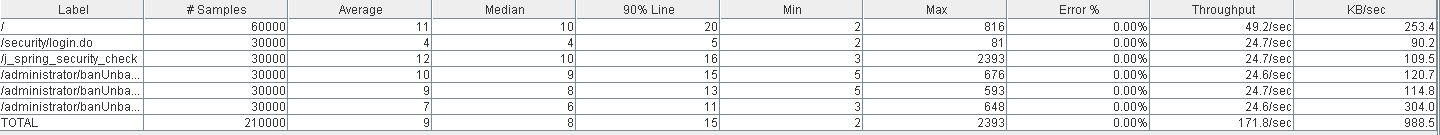


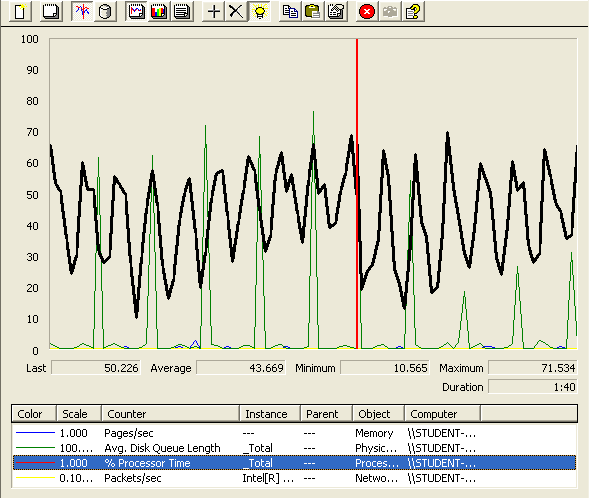




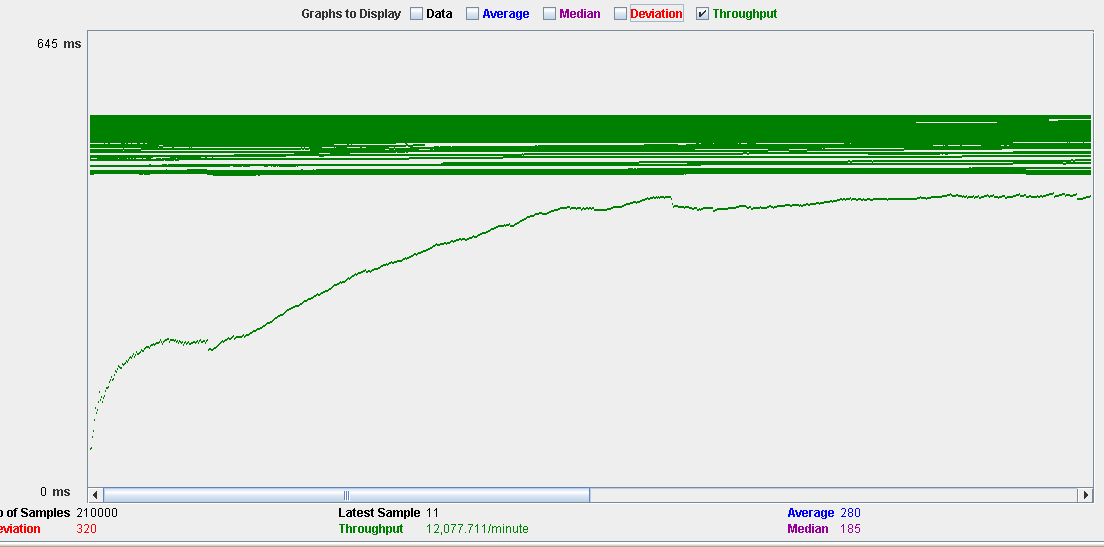
# Browse reported users

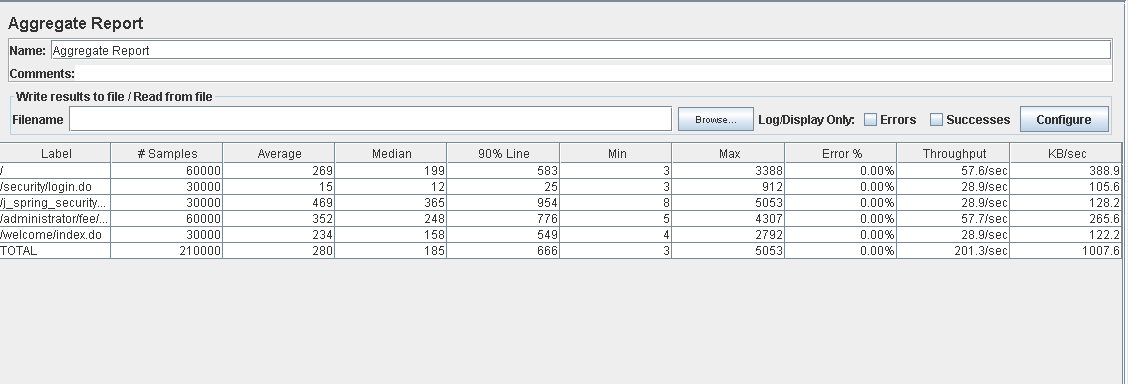


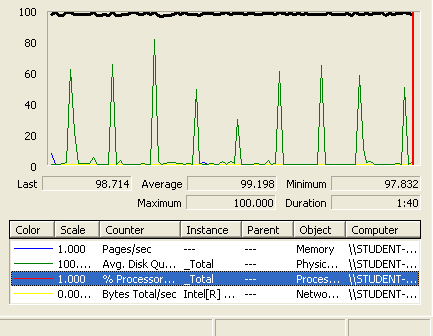




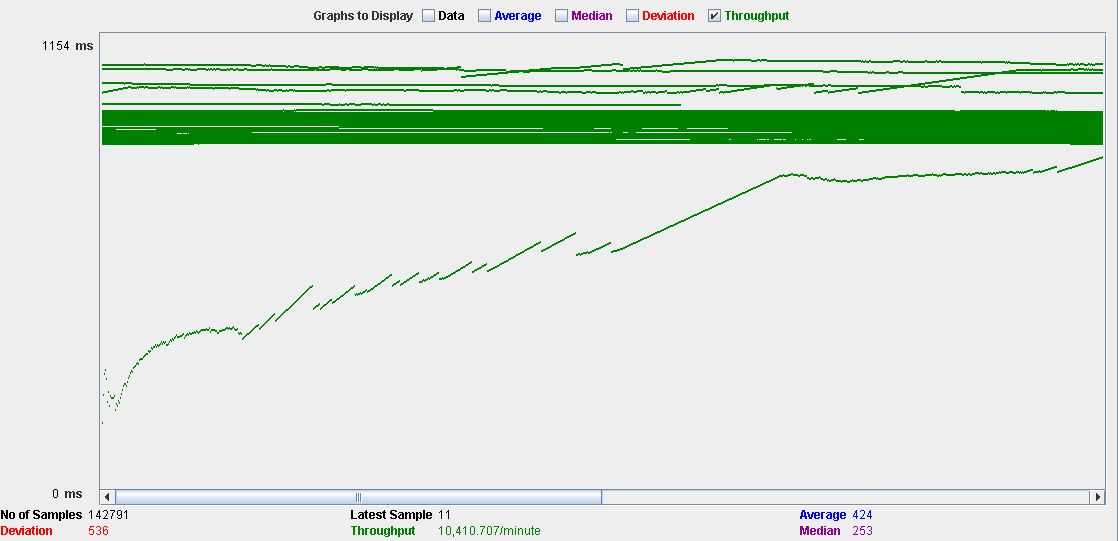
# Edit fee

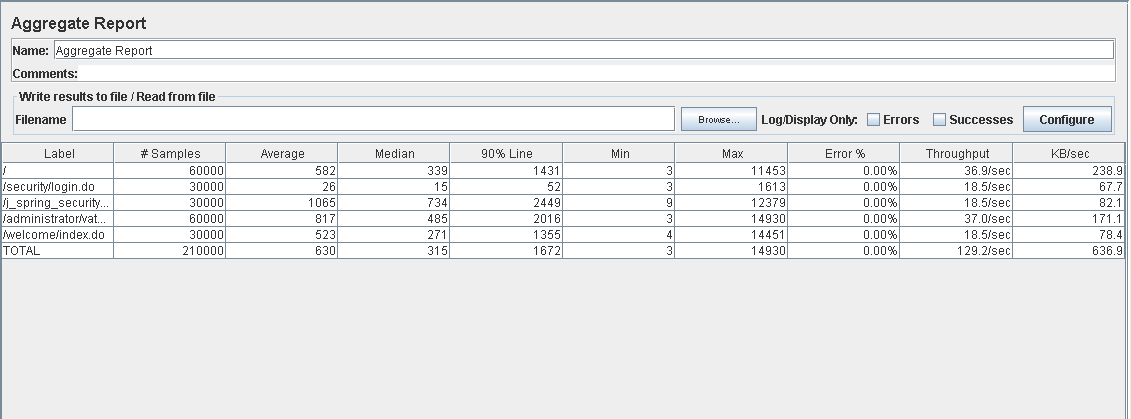


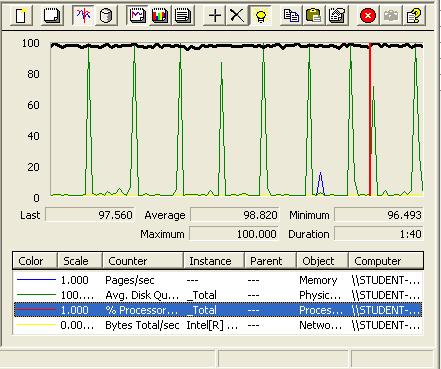




# Edit vat number







# Conclusiones

Como podemos observar en todos los test al aumentar el número de usuarios más tarda en realizarse cada acción. Además, podemos ver que el procesador es nuestro cuello de botella, si lo reemplazamos por un procesador más potente podríamos aumentar la cantidad de usuarios simultáneos.

Se han encontrado casos de uso que en los cuales hemos tenido que bajar mucho los usuarios y veces que se repetían. Estos casos eran aquellos que creaban una entidad nueva y luego se listaban todas. Al principio no pasaba nada, pero según avanzaba y cada vez mucho más lento llegando a un punto de no avance.