**PRUEBA DE RENDIMIENTO HU-01**

En esta prueba de rendimiento para esta historia de usuario es peor que el resto, como se podrá observar esto ocurre al acceder a la pestaña de búsqueda de libros. Creemos que esto es debido al uso de una API externa, en concreto <https://poemist.github.io/poemist-apidoc/>, al parecer si se sobrepasa un número de peticiones en un intervalo de tiempo se satura y comienza a devolver fallos.

Además, en el escenario de crear el libro correctamente, se añade también, aunque corresponda a la HU-03, la parte de borrar un libro correctamente. Se usan feeders para indicar qué libro borrar en cada petición.

**Stress Test:** en esta prueba el mínimo número de usuarios concurrentes que no pueden ser soportados son alrededor de 4000 usuarios en cada uno de los 2 escenarios repartidos en 10 segundos se produce un cuello de botella en la CPU, además podemos observar el gran uso de la interfaz de red como consecuencia de las llamadas a la API externa antes mencionada.

Ilustración 1: cuello de botella HU-01


Ilustración 1: cuello de botella HU-01

Imagen que contiene computadora, negro, tabla, laptop

Descripción generada automáticamente

Ilustración 2: uso interfaz red HU-01

**Load Test:** después de lo que se ha comentado anteriormente sobre la API, en este caso la aplicación puede proporcionar un rendimiento óptimo para 40 usuarios durante 100 segundos en ambos escenarios, como podremos observar en las siguientes pruebas, es un rendimiento bastante pobre.

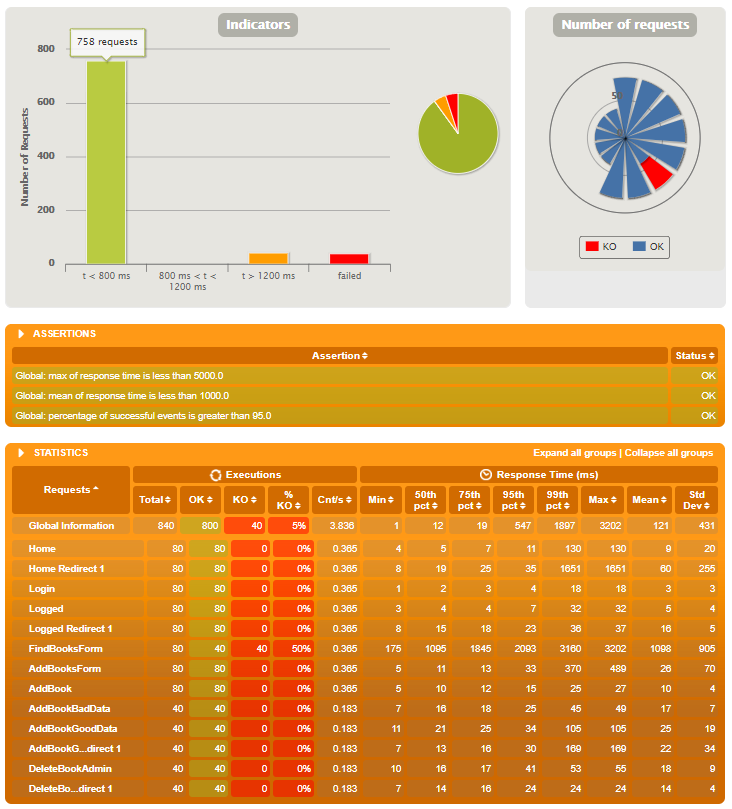


Ilustración 3:Resultado Load Test HU-01

En las pruebas a continuación mi maquina tuvo un problema y el uso de la CPU estaba “capado” al 72%, por lo cual los cuellos de botella se producirán cuando llegue al 72% en lugar de al 100%

**PRUEBA RENDIMIENTO HU-03**

En este apartado solo se va a probar un escenario ya que el de borrar el libro correctamente se prueba junto a la HU-01 de forma que tras añadir un libro se borra para evitar problemas que hemos encontrado durante el desarrollo de las pruebas.

**Stress test:** el mínimo número de usuarios concurrentes que no pueden ser soportados en los escenarios es de aproximadamente 10000 usuarios “en rampa” durante 10 segundos (téngase en cuenta que es un solo escenario a diferencia del resto de análisis que son 2)

El motivo del mal rendimiento es, como se comenta en análisis de historias de usuario posteriores el consumo de una API que ofrece un mal rendimiento.

Por dicha razón la interfaz de red actúa como cuello de botella.

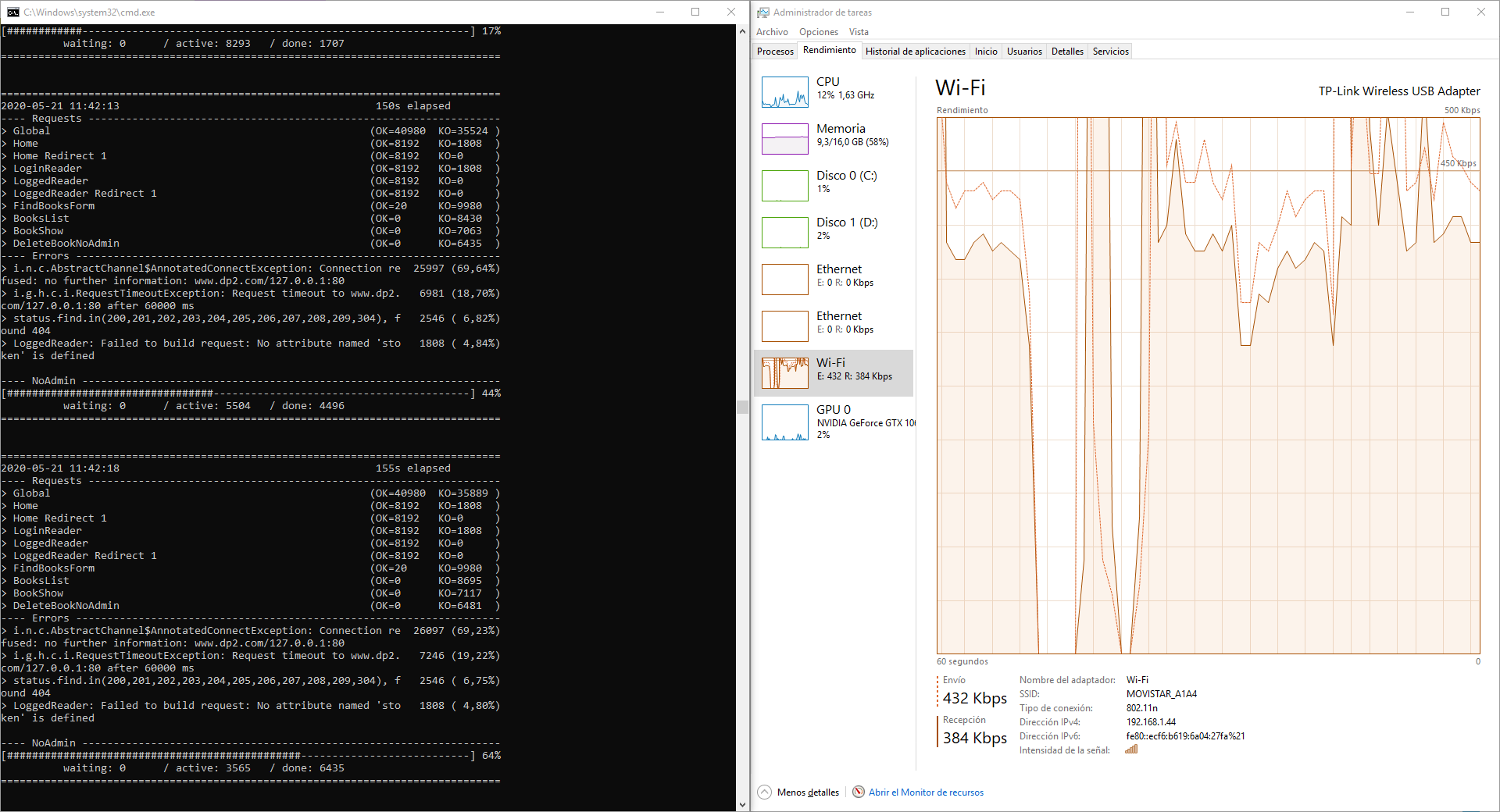


Ilustración 1: cuello de botella HU-03

**Load test:** debido al mal rendimiento de la API que tiene un tiempo de respuesta muy elevado y además solo acepta 20 peticiones y después se satura, el máximo número de usuarios que soporta este escenario con un rendimiento óptimo es de 71

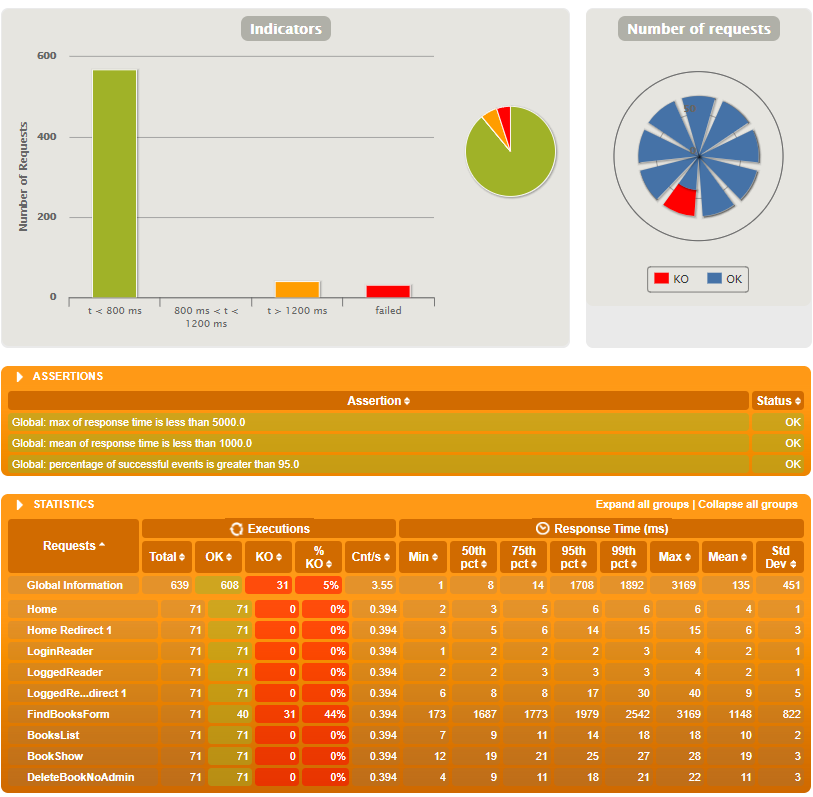


Ilustración 2: Test de carga HU-03

**PRUEBA RENDIMIENTO HU-04**

En esta prueba se observa un rendimiento mucho peor que en el resto, que como se podrá comprobar tiene que ver con entrar en la pestaña de búsqueda de libros de nuestra aplicación.

En concreto, creemos que tiene que ver con el uso que se hace de una API externa, que al parecer no permite se sobrepase un cierto número de peticiones en un intervalo de tiempo.

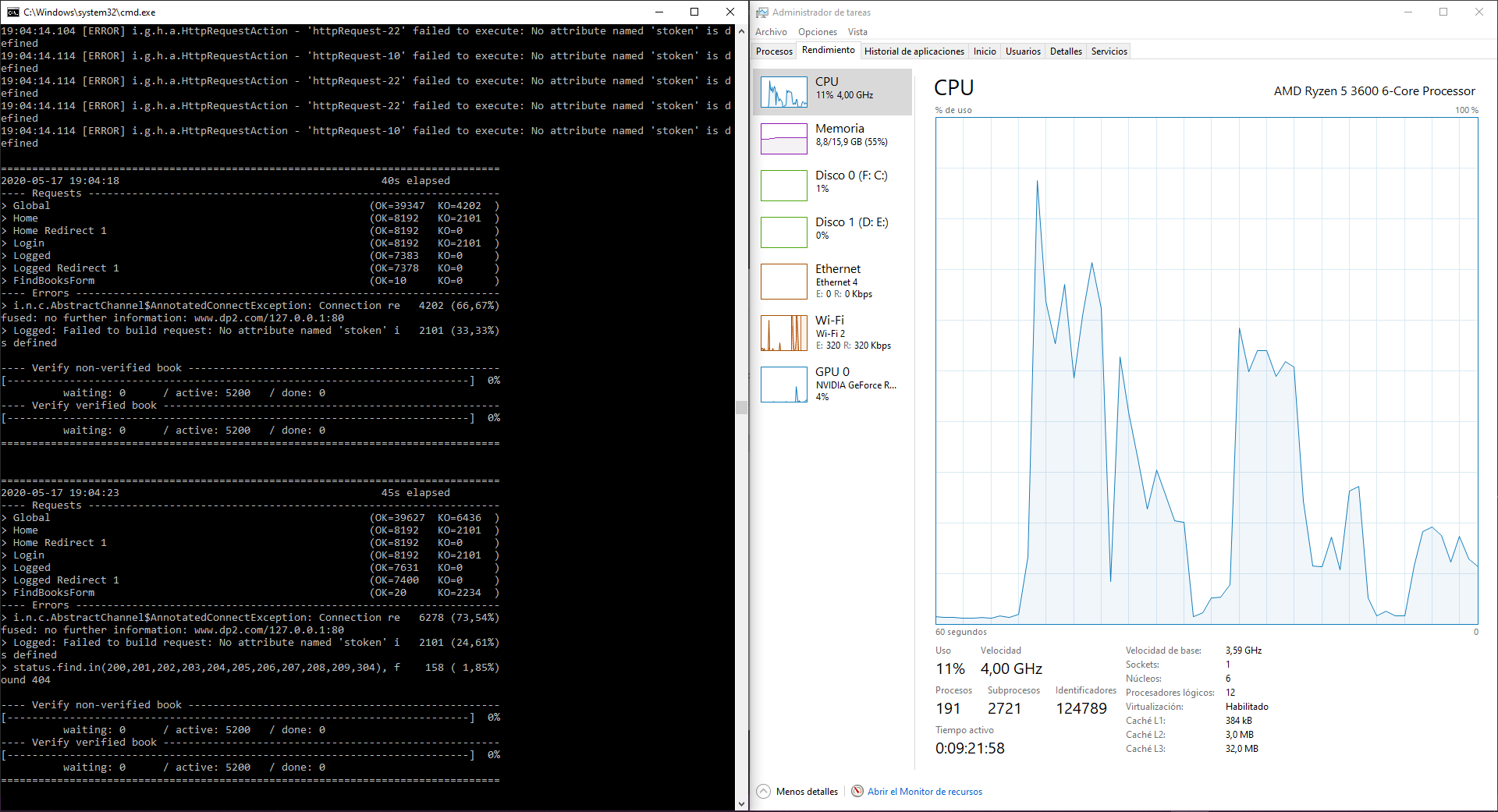
**Stress Test**: aquí obtenemos que con 5200 usuarios concurrentes en cada uno de los 2 escenarios repartidos en 10 segundos se produce un ligero cuello de botella en la CPU, pero sobre todo podemos comprobar el gran uso que se hace de la interfaz de red como consecuencia de las llamadas a la API externa.

Ilustración 1: stress test HU-04

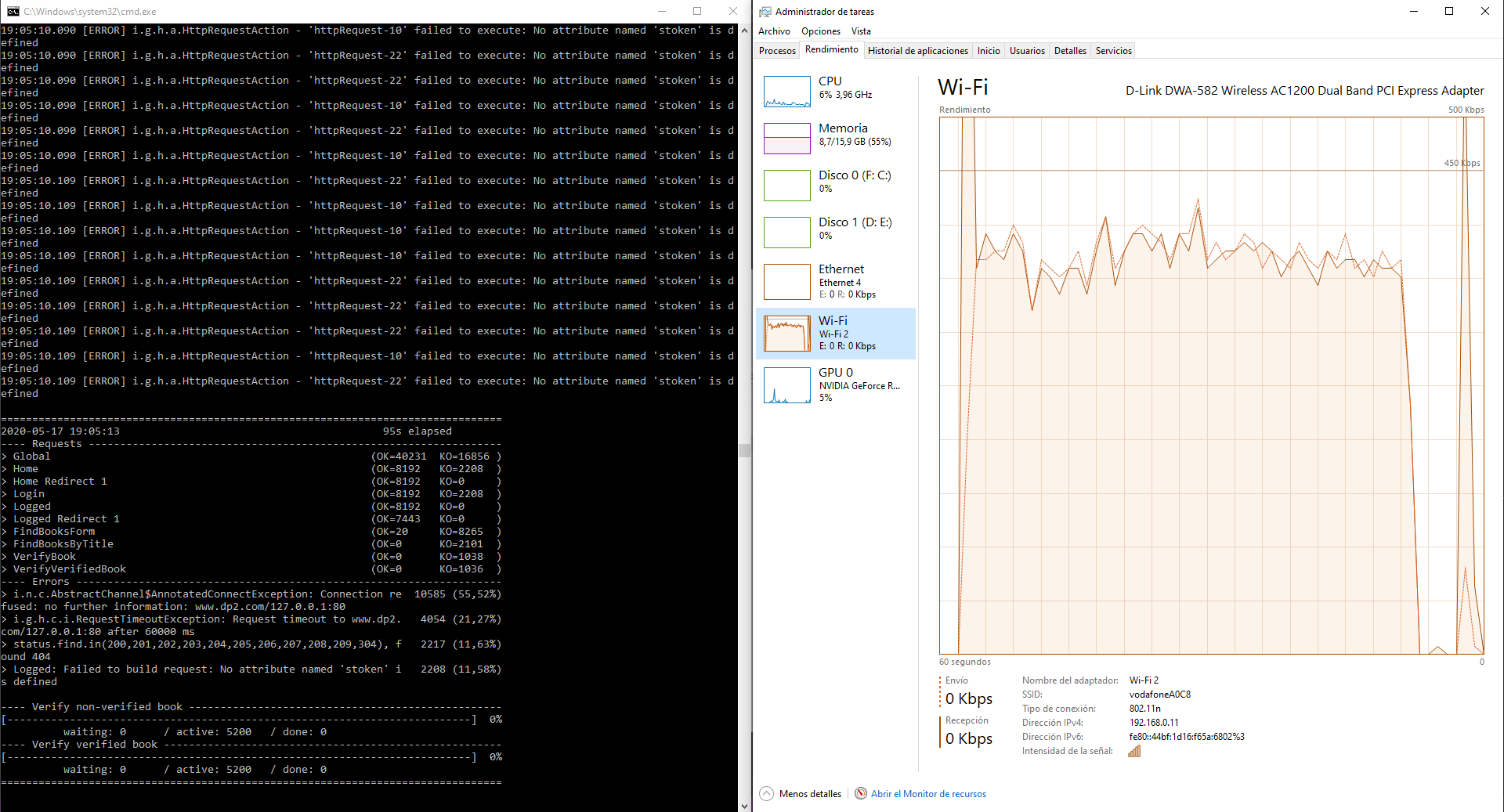


Ilustración 2: stress test HU-04

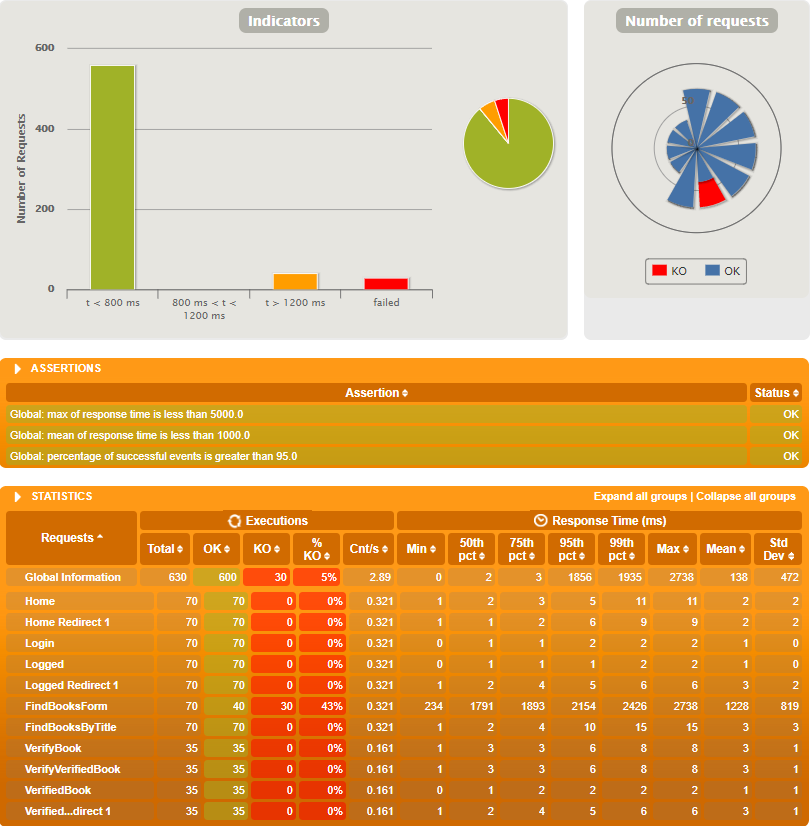
**Load Test**: debido a lo comentado sobre el rendimiento de la API, nuestra aplicación solo puede proporcionar un rendimiento óptimo para 35 usuarios durante 100 segundos, que como podemos comprobar en otros escenarios, es un rendimiento bastante pobre para lo que podría ser. 

Ilustración 3: load test HU-04

**PRUEBA RENDIMIENTO HU-06**

**Test de stress:** el mínimo número de usuarios concurrentes que no pueden ser soportados en los escenarios está alrededor de los 15000 usuarios en cada uno de los dos escenarios, repartidos en 10 segundos.

Al comenzar la ejecución se desborda la CPU, que es el cuello de botella, y a medida que avanzan las peticiones se va estabilizando.

Si se disminuyen los usuarios concurrentes la aplicación ya sería capaz de ir empezando a soportar los escenarios.

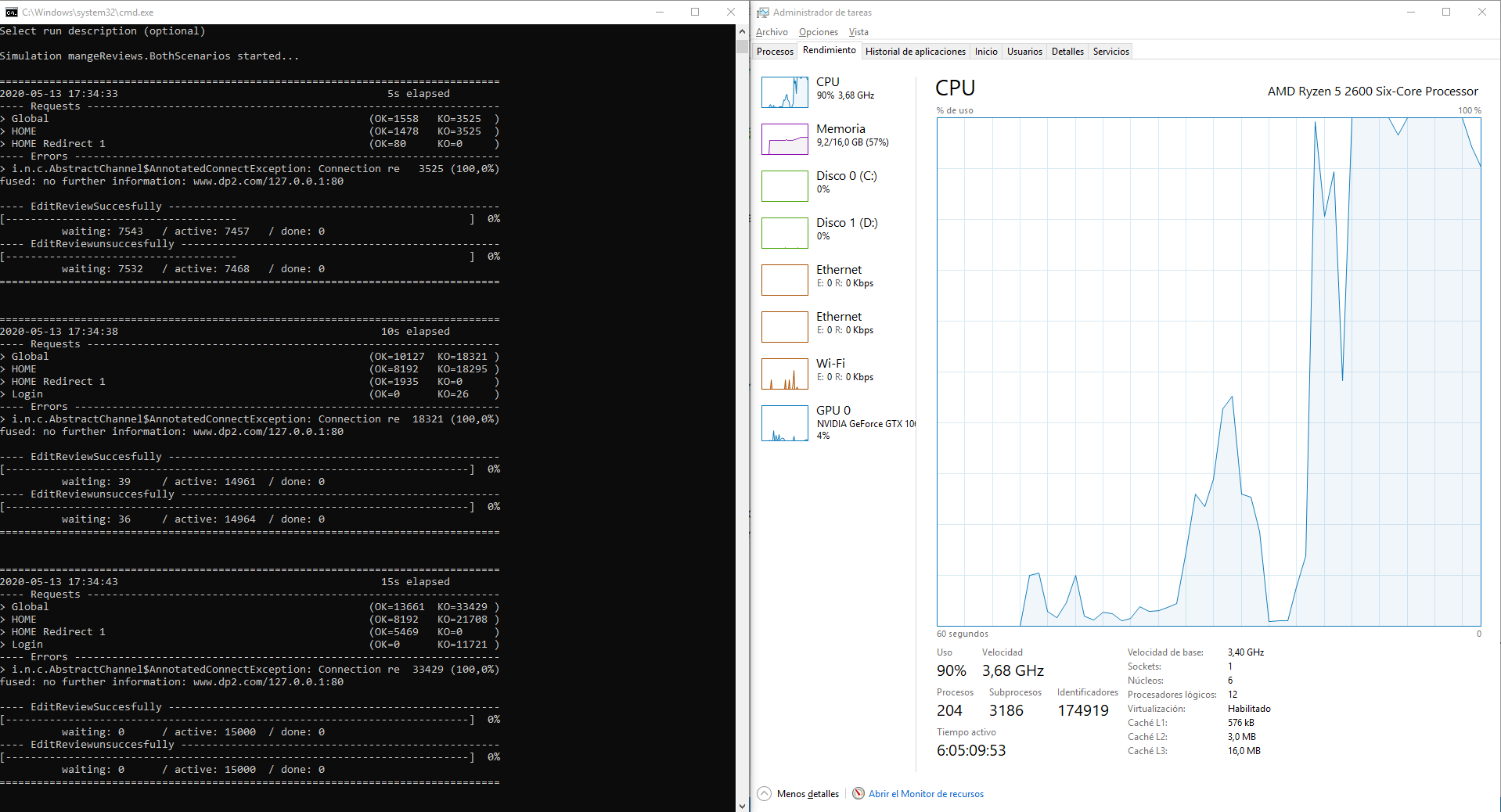


Ilustración 3:cuello de botella HU-06

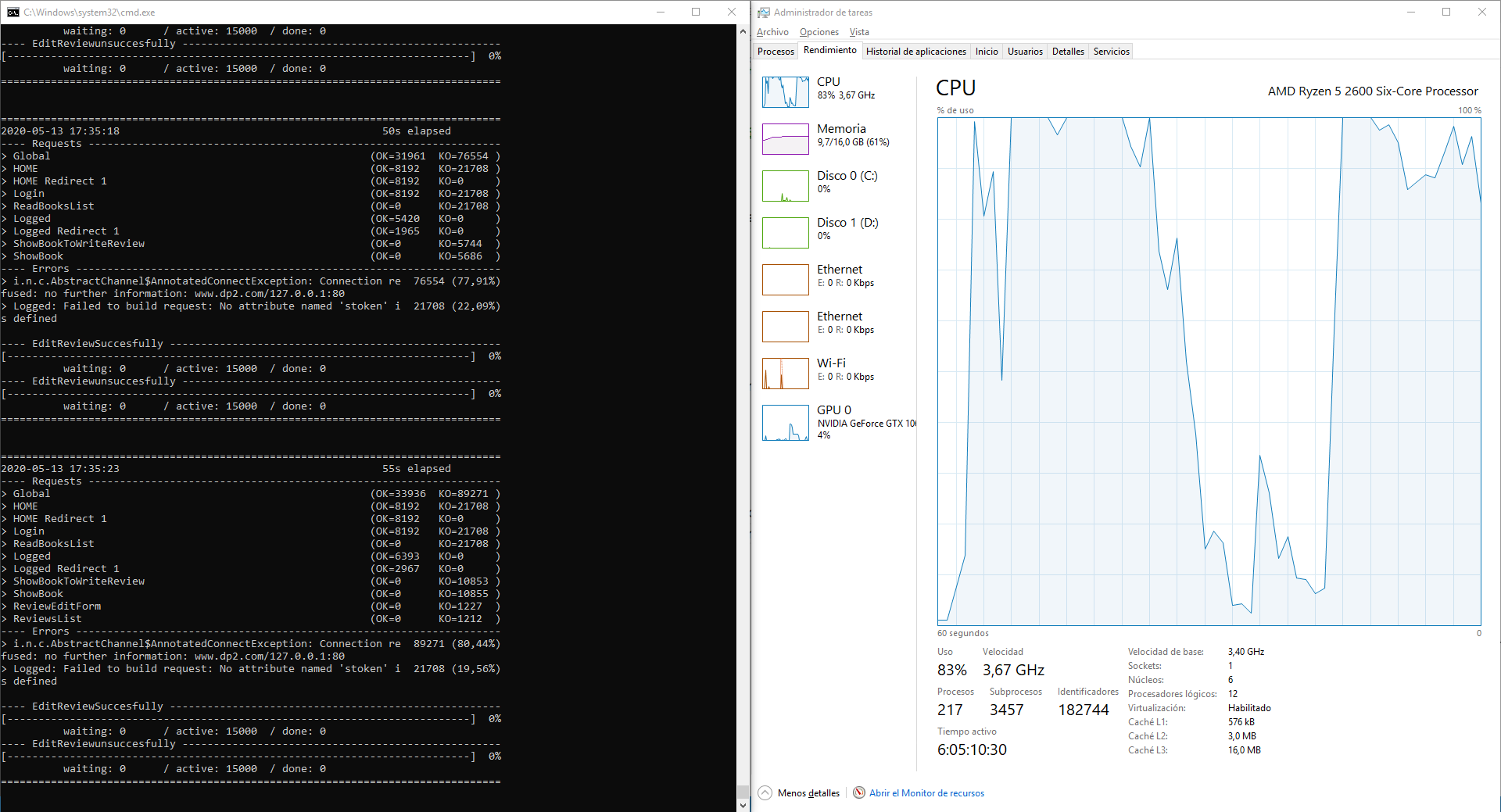


Ilustración 4: cuello de botella HU-06

**Load test:** el máximo número de usuarios al que se puede ofrecer servicio con un buen rendimiento (95% de peticiones OK, media 1s la respuesta y 5s máximo tiempo respuesta) es de **3000 usuarios repartidos durante 100 segundos**.



Ilustración 5: test de carga HU-06

**PRUEBAS DE RENDIMIENTO HU-07**

**Stress Test:** el mínimo de usuarios concurrentes que no pueden ser soportados en estos escenarios está alrededor de 5000 usuarios en cada uno repartidos en segundos, este valor concuerda con los valores obtenidos en el resto de las pruebas realizadas en mi máquina.

Podemos observar que la iniciar la prueba se desborda la CPU, que provoca el cuello de botella que se observa en la imagen, pero en cuanto empiezan a bajar los usuarios la aplicación será capaz de responder pero no a un nivel óptimo.

Una captura de pantalla de una computadora

Descripción generada automáticamente

Ilustración 4: cuello de botella HU-07

**Load Test:** el número máximo de usuarios al que se puede ofrecer un rendimiento aceptable es de 1300 usuarios en cada escenario repartidos en 100 segundos.

**![Captura de pantalla de un celular

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REMRXhpZgAATU0AKgAAAAgABAE7AAIAAAAWAAAISodpAAQAAAABAAAIYJydAAEAAAAsAAAQ2OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEZlcm5hbmRvIFJvbWVybyBSaW9qYQAABZADAAIAAAAUAAAQrpAEAAIAAAAUAAAQwpKRAAIAAAADNDgAAJKSAAIAAAADNDgAAOocAAcAAAgMAAAIogAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Ilustración 5: Load Test HU-07

**PRUEBA RENDIMIENTO HU-08**

Los resultados obtenidos en estos escenarios son peores porque se entra en la página de buscar libros en la que se llama a una API externa que devuelve un poema aleatorio.

**Stress test:** el mínimo número de usuarios concurrentes que no pueden ser soportados en los escenarios ronda alrededor de los 5000 usuarios en cada uno de los dos escenarios, repartidos en 10 segundos.

Al comenzar la ejecución cuando se accede a la página en la que se realiza la llamada a la API externa la interfaz de red WIFI recibe una gran carga de trabajo y creemos que puede ser el cuello de botella.

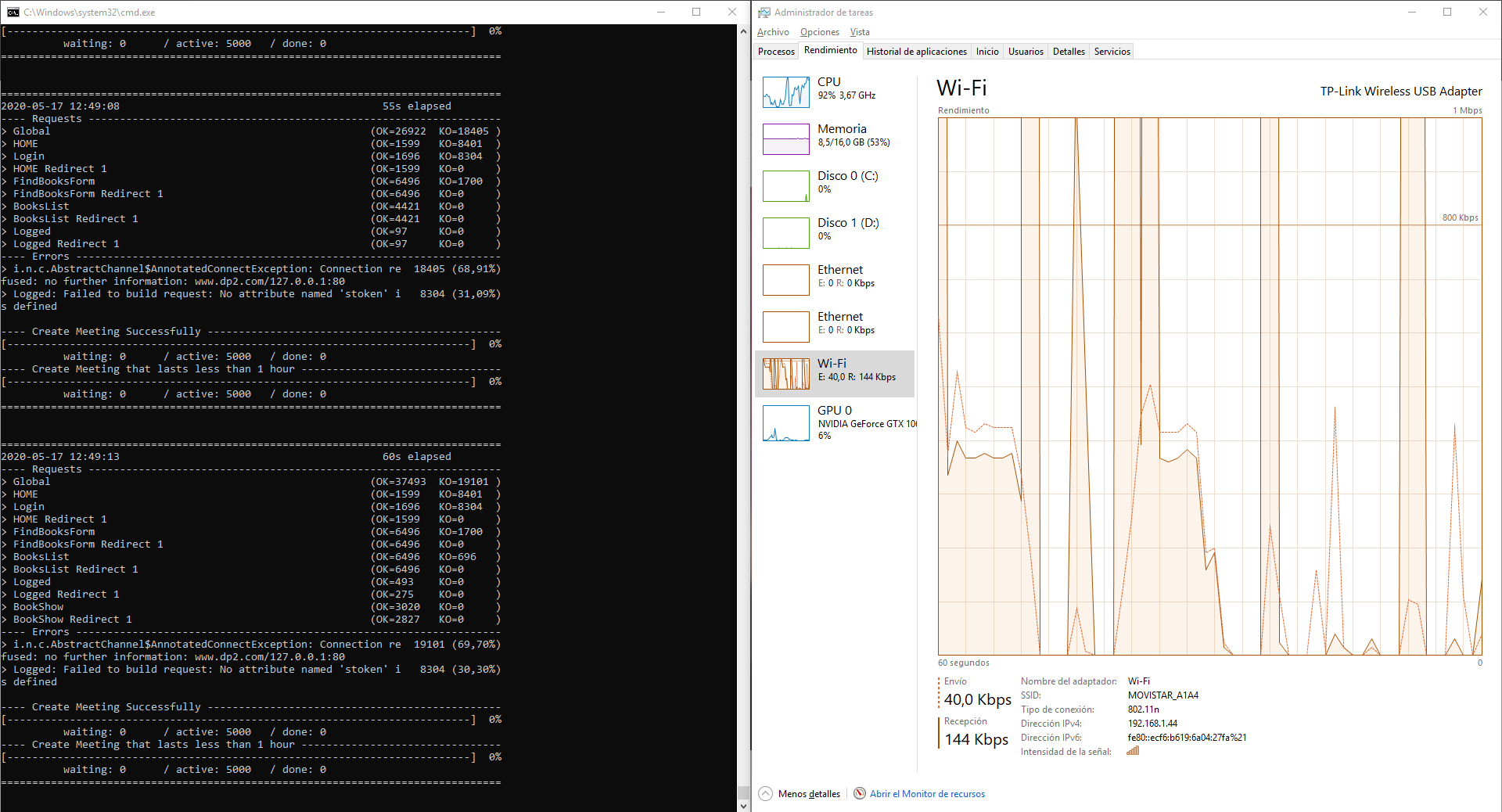


Ilustración 6: cuello de botella HU-08

Cabe destacar que se ha usado el feeder CreateMeetingStressFeeder.csv para los datos de las reuniones que se pretenden crear correctamente.

**Load test:** debido al uso de la API solo se pude dar un rendimiento óptimo a 33 usuarios repartidos durante 10 segundos. A partir de ahí los tiempos de respuesta medio y máximo, así como el porcentaje de respuestas fallidas se dispara, ya que la API (<https://poemist.github.io/poemist-apidoc/>) se satura y empieza a devolver fallos.

Si nos fijamos durante la ejecución las primeras 20 peticiones a la API funcionan con normalidad, aunque lentas, pero después deja de aceptar las peticiones. Suponemos que tienen “capado” el tráfico a un usuario y nos plantearemos cambiar la API por otra que ofrezca un rendimiento aceptable, ya que el resto de la aplicación aguanta una cara muchísimo mayor.

La petición que contiene la llamada a la API, como se puede deducir por su mal rendimiento, es FindBooksForm.

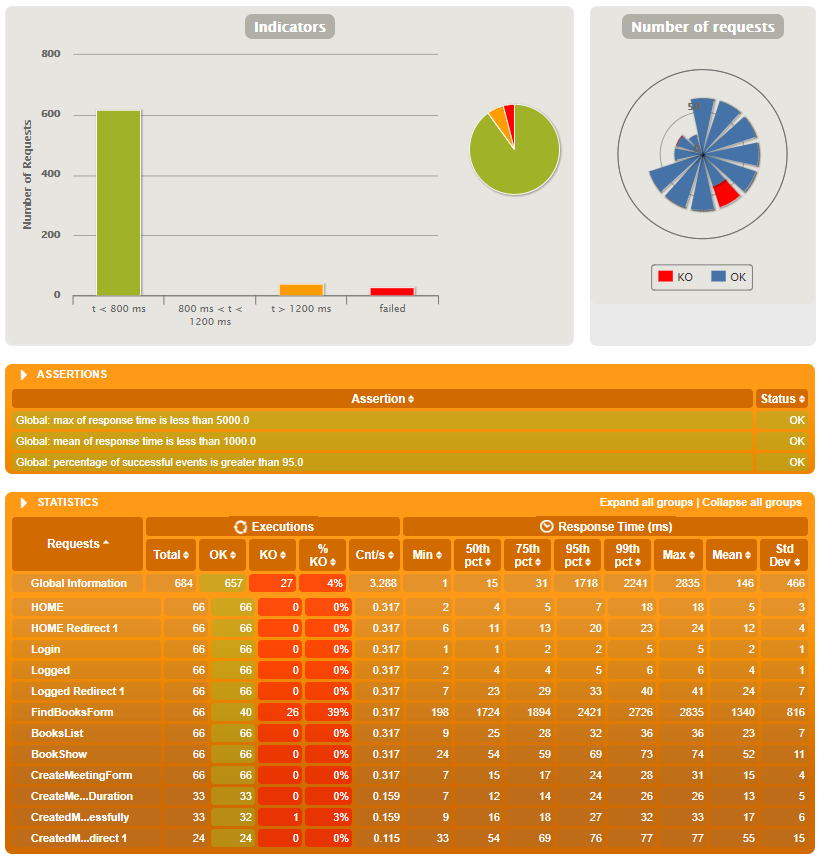


Ilustración 7: test de carga HU-08

Se ha usado un feeder para dar los datos para crear la reunión: CreateMeetingLoadFeeer.csv

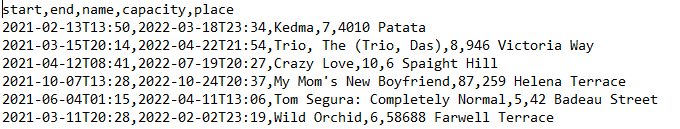


Ilustración 8: ejemplo feeder

Y se pueden ver los resultados en la BD que concuerdan con los datos del feeder:



Ilustración 9: resultado en BD

**PRUEBA RENDIMIENTO HU-11**

**Stress test:** el mínimo número de usuarios concurrentes que no pueden ser soportados en los escenarios ronda alrededor de los 10000 usuarios en cada uno de los dos escenarios, repartidos en 10 segundos. Concuerda con los resultados de la mayoría de las pruebas realizadas (en mi máquina).

Al comenzar la ejecución se desborda la CPU, que es el cuello de botella, pero pronto se recupera. Por ello, en cuanto se bajen un poco los usuarios la aplicación ya será capaz responder, aunque no con un rendimiento óptimo todavía.

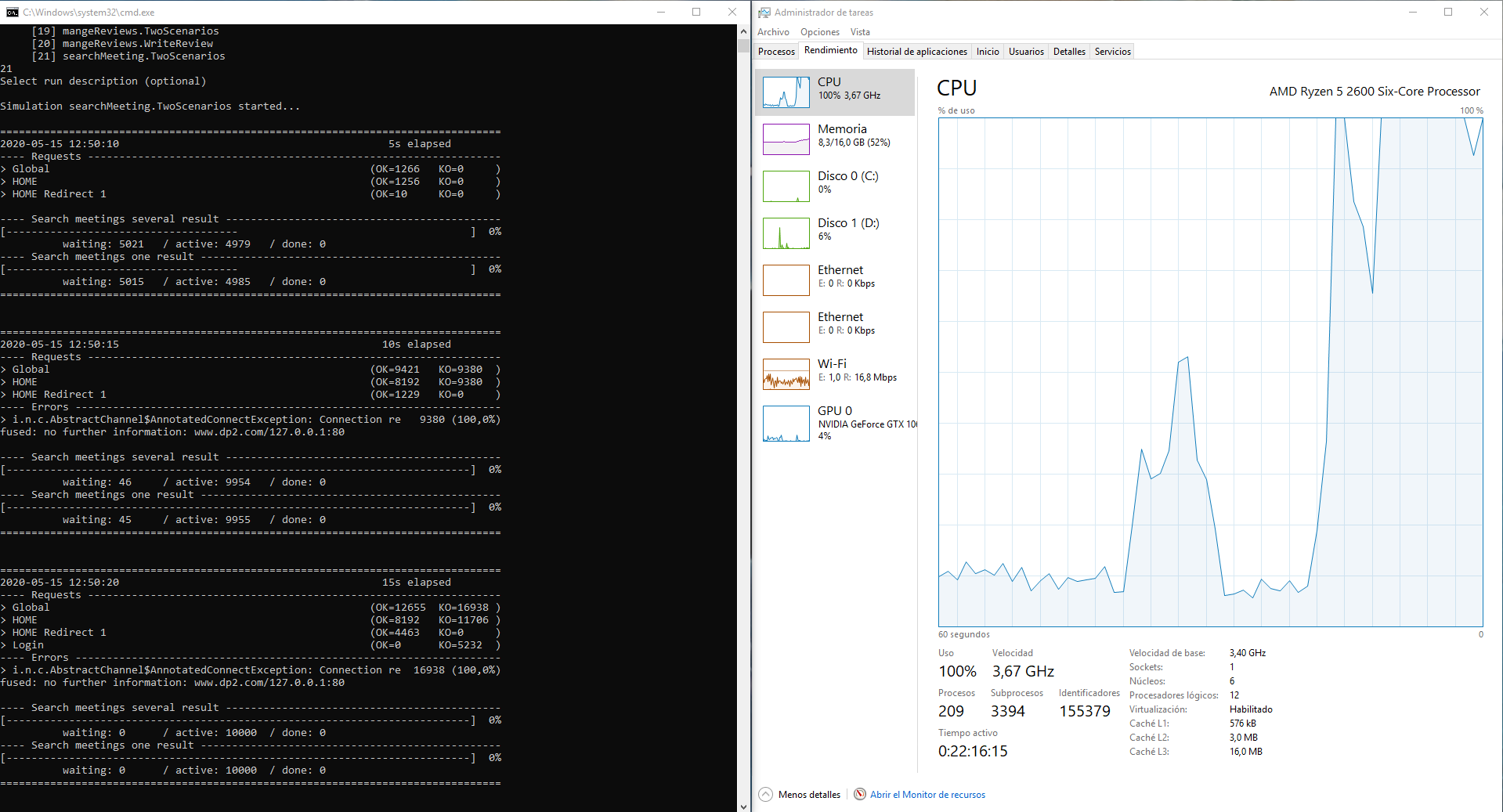


Ilustración 10: cuello de botella HU-11

**Load test:** el máximo número de usuarios al que se le puede ofrecer un rendimiento aceptable es de 3500 usuarios en cada escenario repartidos en 100 segundos.

Cabe destacar que en la petición MeetingsSearchForm se realiza una llamada a una API externa (<https://github.com/lukePeavey/quotable>). Por tanto, dicha API ofrece un servicio con una calidad mucho mayor que la citada en el análisis de la HU-08, que soportaba como máximo solo 90 usuarios en lugar de 3500.

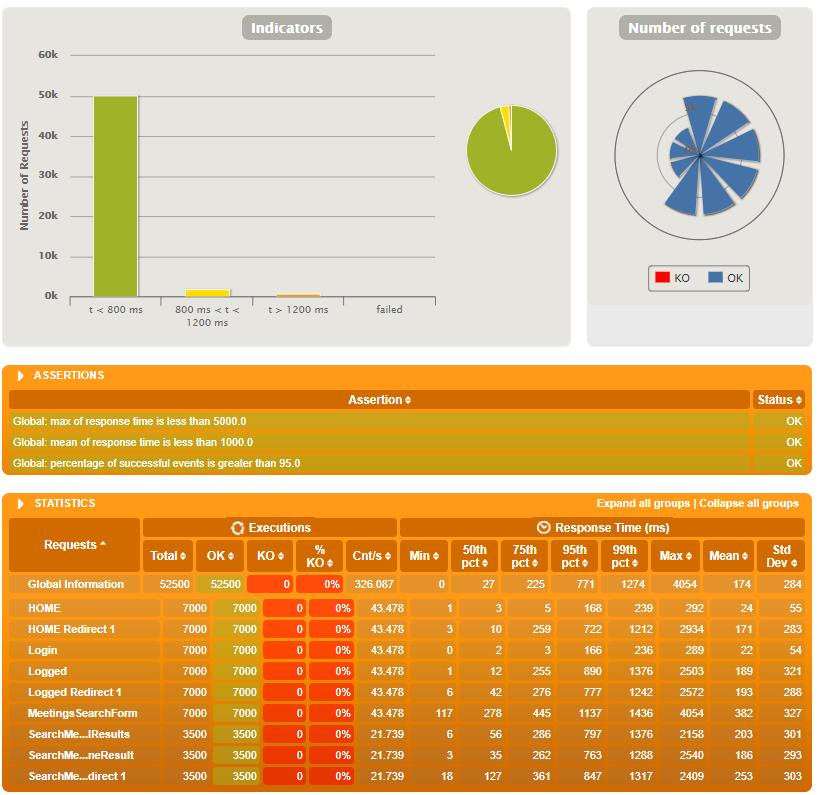


Ilustración 11: test de carga HU-11

**PRUEBAS DE RENDIMIENTO HU-15**

**Stress Test:**  en esta prueba el número mínimo de usuarios concurrentes que la aplicación no pueden ser soportados son 8000 en cada escenario durante 10 segundos, estos valores son muy elevados comparados con el resto de pruebas, pero en este caso la prueba solo consiste en hacer login, por lo tanto permite mayor número de usuarios.

**Una captura de pantalla de una computadora

Descripción generada automáticamente**Ilustración 6: cuello de botella HU-15

**Una captura de pantalla de una computadora

Descripción generada automáticamente**Ilustración 7: cuello de botella HU-15

**Load Test:** en esta prueba de rendimiento, comprobamos que la aplicación puede ofrecer un rendimiento óptimo a 3800 usuarios durante 100 segundos.

**![Captura de pantalla de un celular con letras

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RC0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAWAAAISodpAAQAAAABAAAIYJydAAEAAAAsAAAQgOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEZlcm5hbmRvIFJvbWVybyBSaW9qYQAAAeocAAcAAAgMAAAIcgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Ilustración 8: Load Test HU-15

**PRUEBA RENDIMIENTO HU-17**

En esta prueba debido a la naturaleza de los escenarios positivo y negativo de la historia de usuario, hemos utilizado el mismo script pero variando el número de usuarios dependiendo del caso, primero con la base de datos totalmente poblada y después con la base de datos pero sin los datos de libros más leídos.

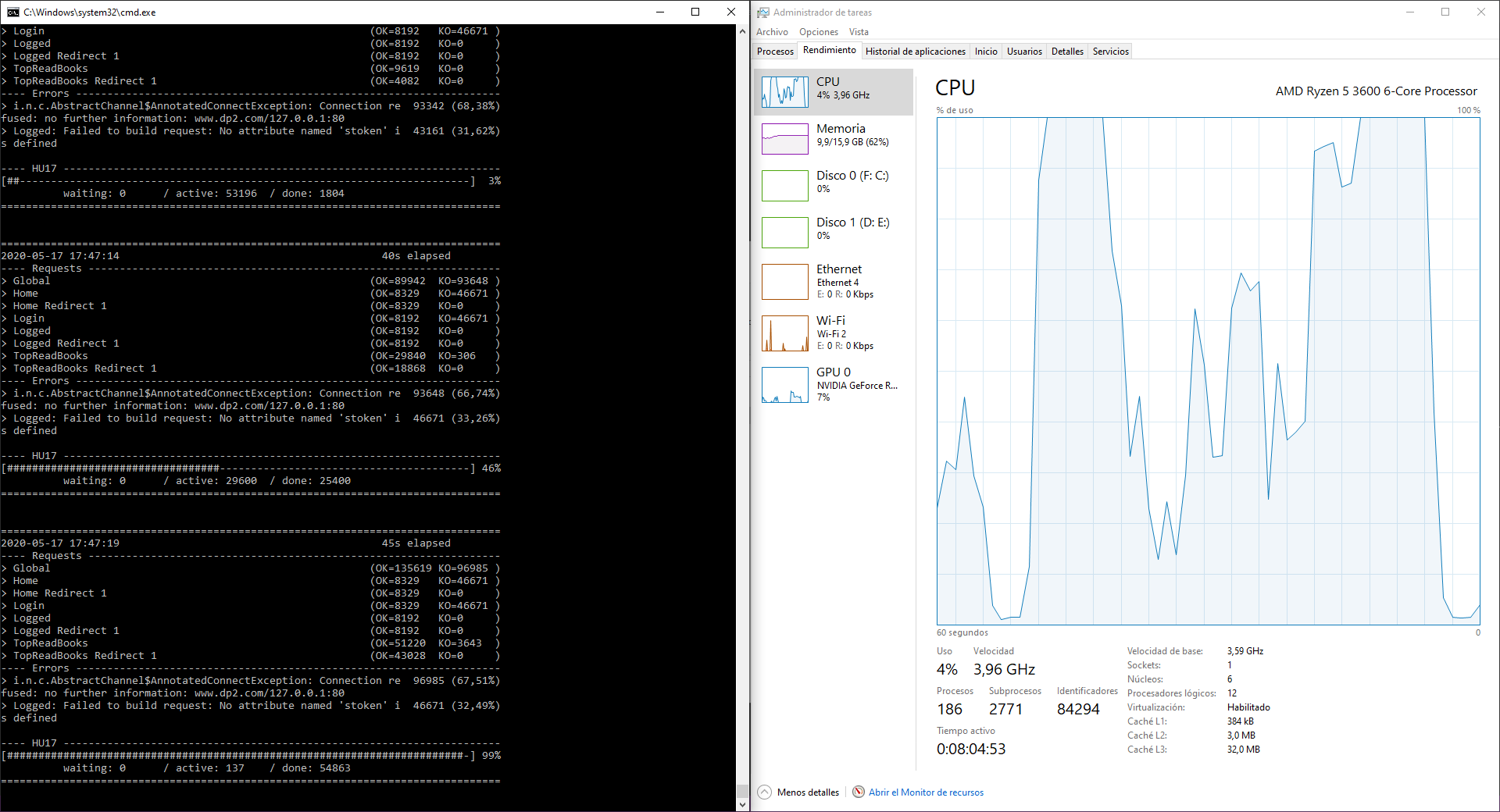
**Stress Test**: aquí obtenemos que con 55000 usuarios concurrentes en 10 segundos y con la base de datos totalmente poblada se producía un cuello de botella importante en la CPU, mientras que en el caso de la base de datos sin los datos de libros más leídos esta cifra de usuarios concurrentes llega hasta los 85000 en 10 segundos.

Ilustración 4: stress test HU-17 con BD totalmente poblada

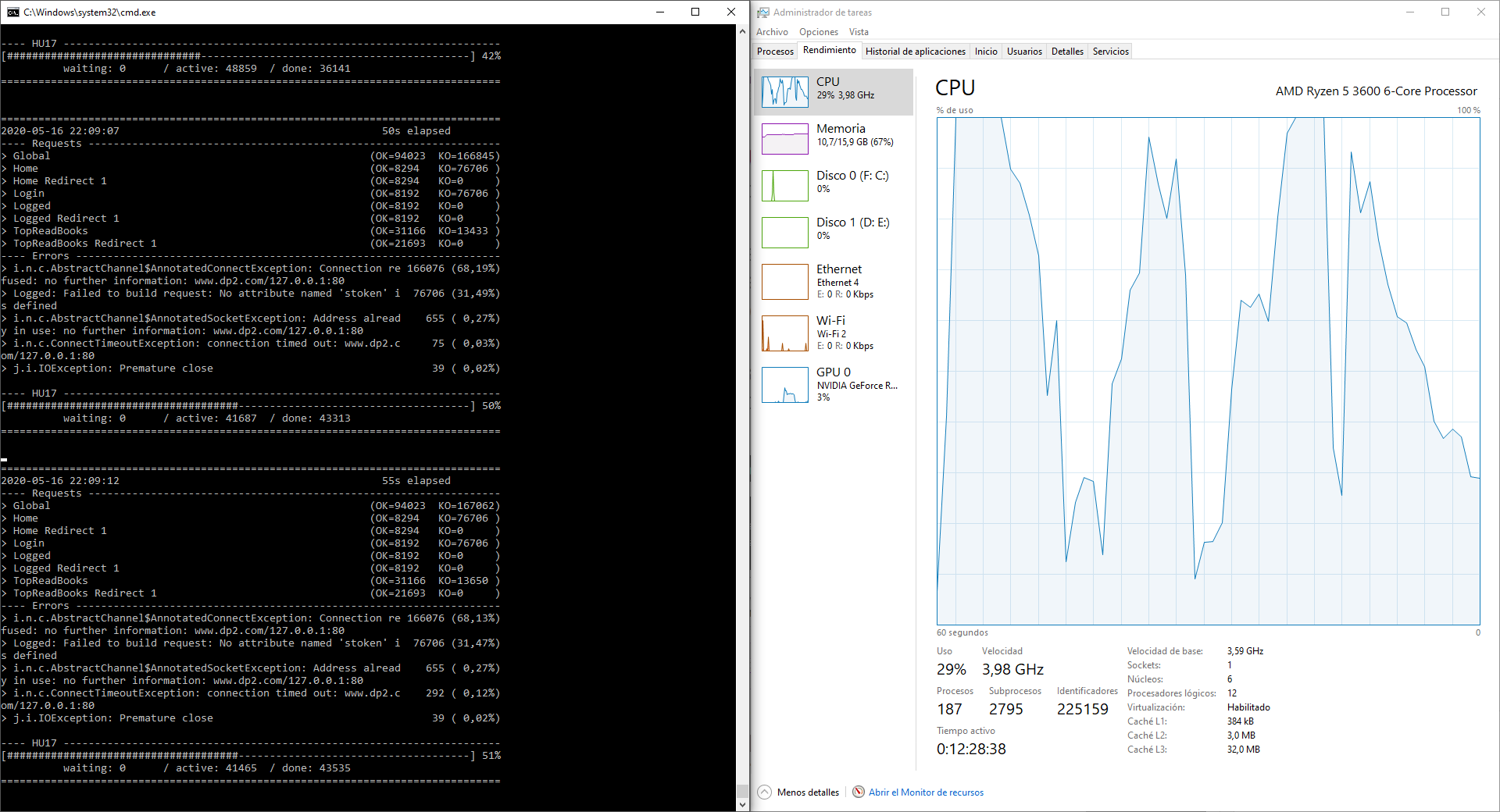


Ilustración 5: stress test HU-17 sin datos de libros más leídos

**Load Test**: como se puede observar, nuestra aplicación puede proporcionar un rendimiento óptimo para 35000 usuarios en 100 segundos en el caso de que no haya datos de libros más leídos y para 32500 usuarios en 100 segundos en caso contrario.

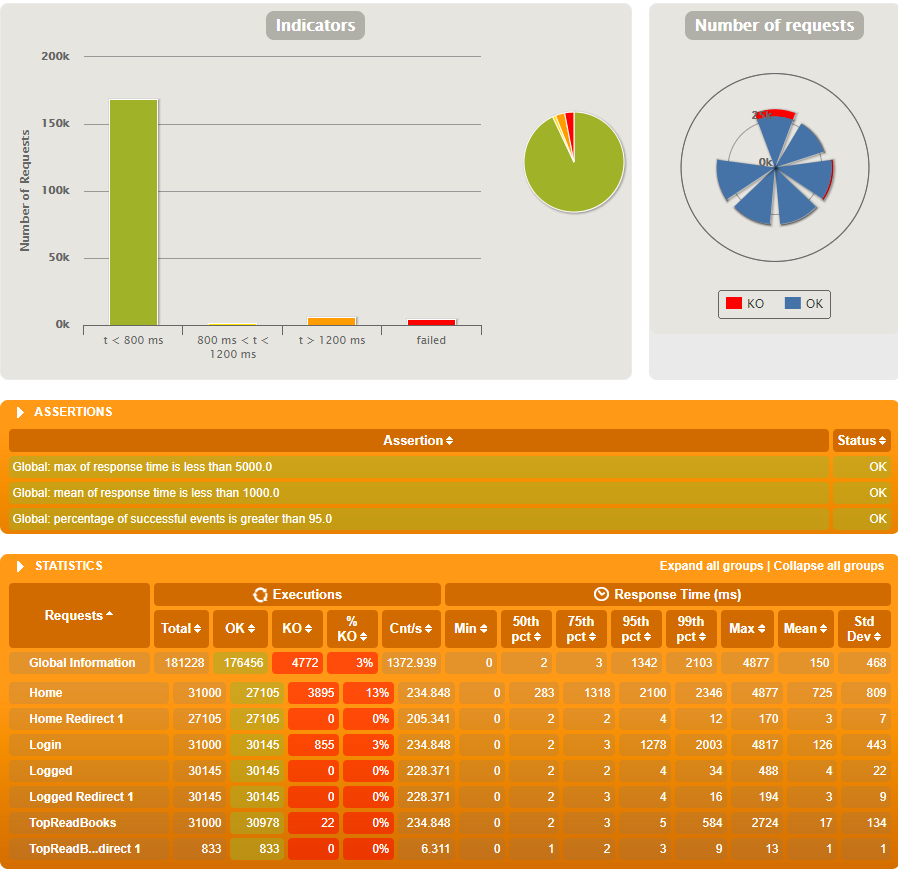


Ilustración 6: load test HU-17 sin datos de libros más leídos

**PRUEBA RENDIMIENTO HU-20**

**Stress Test**: aquí obtenemos que con 15000 usuarios concurrentes repartidos en 10 segundos se produce un cuello de botella importante en la CPU, aunque con el paso del tiempo se va recuperando.

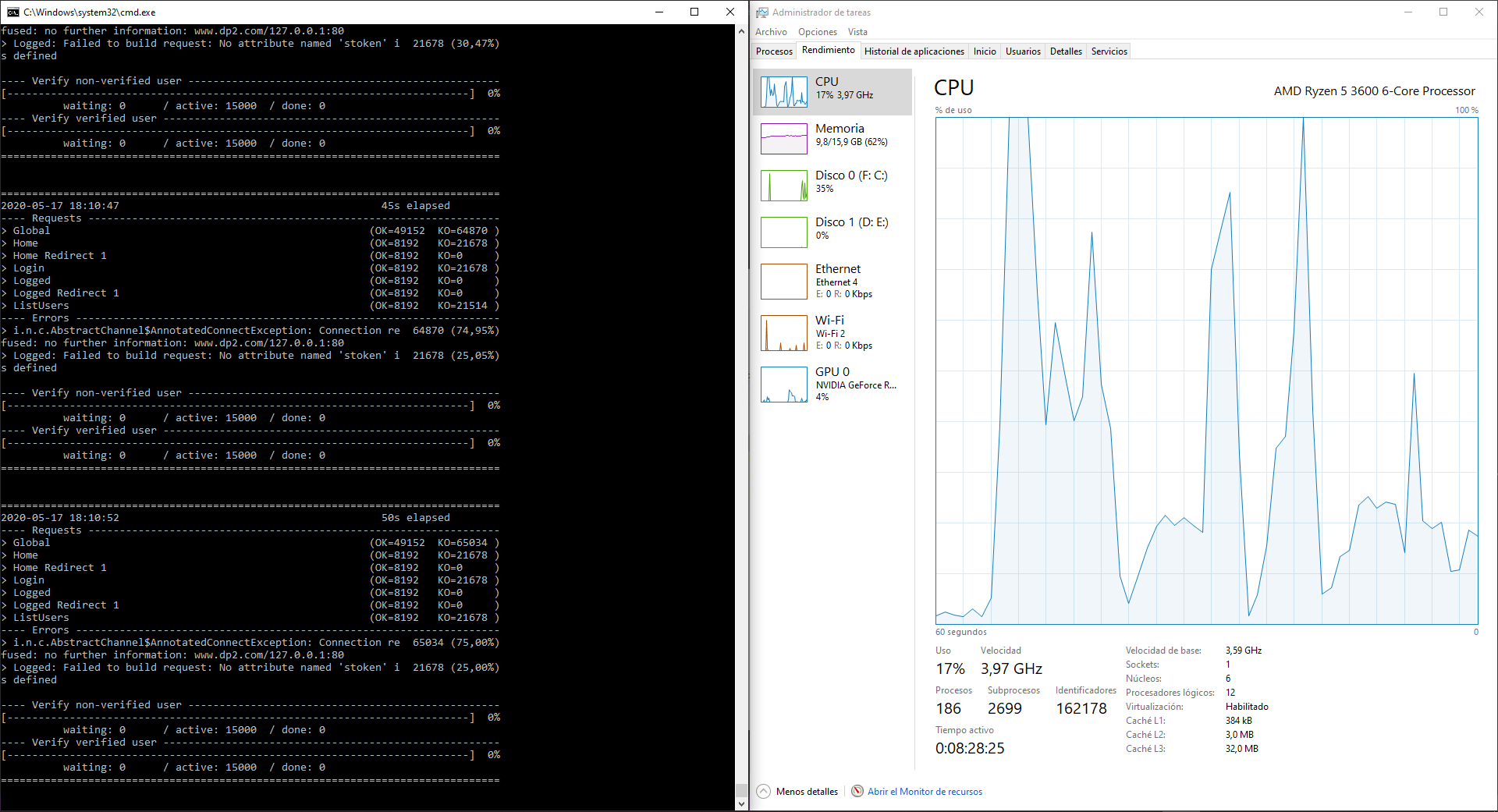


Ilustración 8: stress test HU-20

**Load Test**: en este caso, comprobamos que la aplicación puede ofrecer un rendimiento óptimo a 5500 usuarios durante 100 segundos.

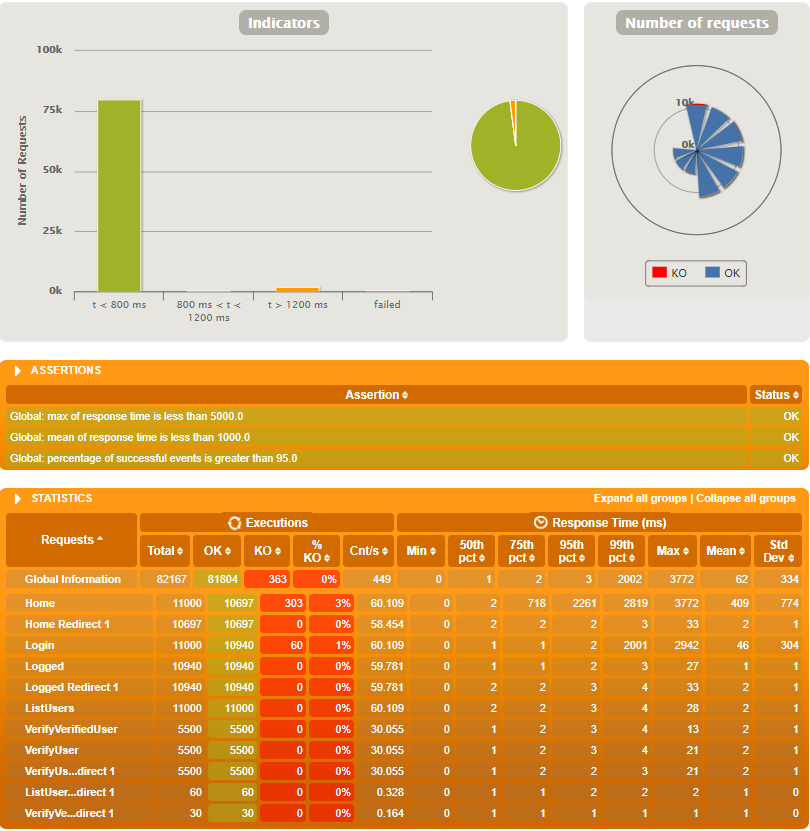


Ilustración 9: load test HU-20

**PRUEBA RENDIMIENTO HU-22**

Ambos escenarios de esta historia de usuario dependen de los datos de una API externa (<https://api.itbook.store/>) por lo que cabe esperar que el rendimiento sea más bajo.

**Stress test:** el mínimo número de usuarios concurrentes que no pueden ser soportados en los escenarios ronda alrededor de los 7000 usuarios en cada uno de los dos escenarios, repartidos en 10 segundos.

Al comenzar la ejecución se desborda la CPU, que es el cuello de botella, pero pronto se recupera. En cuanto bajan los usuarios (por ejemplo a 5000) el rendimiento ya empieza a ser aceptable, aunque sigue sin ser óptimo.

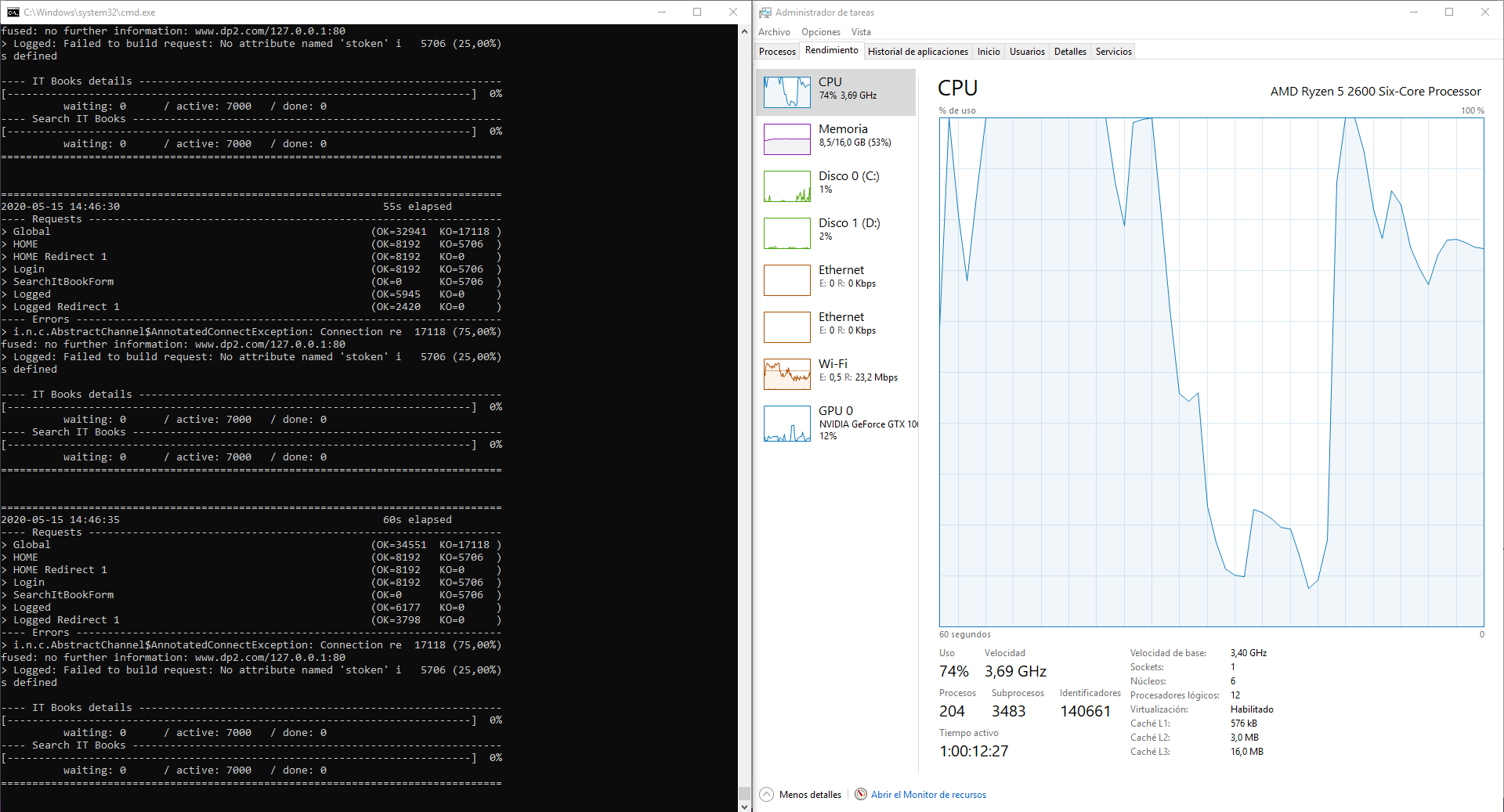


Ilustración 12: cuello de botella HU-22

**Load test:** el máximo número de usuarios al que se le puede ofrecer un rendimiento aceptable es de 1000 usuarios en cada escenario repartidos en 100 segundos.

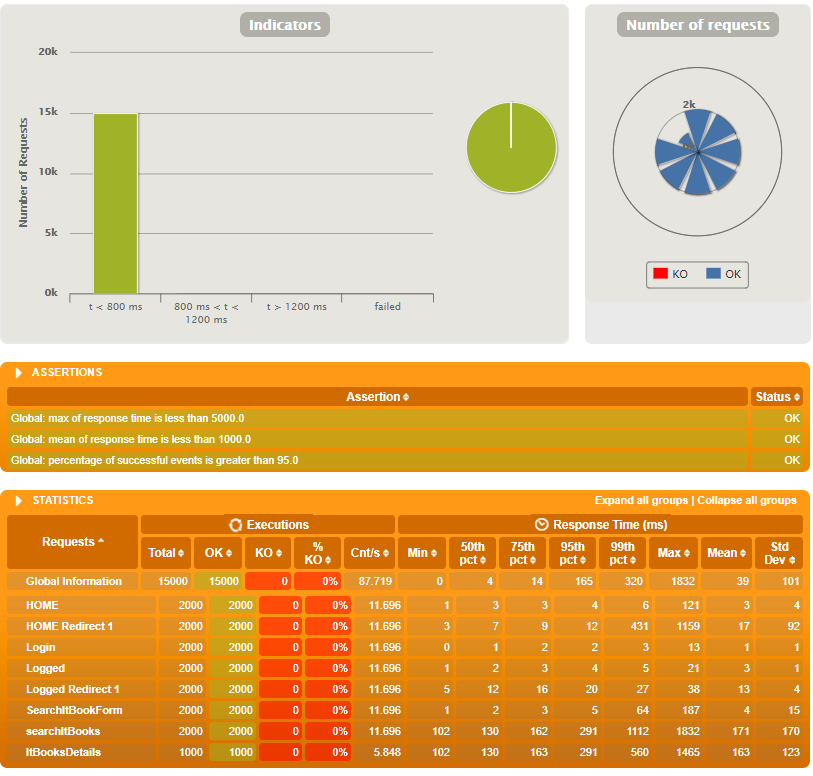


Ilustración 13: test de carga HU-22

En cuanto se suben los usuarios a 1500 el tiempo de respuesta máximo se dispara en torno a los 9 segundos.