

Описание конфигурации JMeter для нагрузочного тестирования

500 пользователей(Потоков) в течении 60 секунд.

The screenshot shows the 'Thread Group' configuration window in JMeter. The 'Name' field is set to 'Thread Group Api'. The 'Comments' field is empty. Under 'Action to be taken after a Sampler error', the 'Continue' radio button is selected. The 'Thread Properties' section shows 'Number of Threads (users)' set to 500 and 'Ramp-up period (seconds)' set to 60. The 'Loop Count' is set to 1, with the 'Infinite' checkbox unchecked. The 'Same user on each iteration' checkbox is checked, while 'Delay Thread creation until needed' and 'Specify Thread lifetime' are unchecked.

HTTP Request GET

Запрашиваем список пользователей в формате json

The screenshot shows the 'HTTP Request' configuration window in JMeter. The 'Name' field is set to 'HTTP Request GET'. The 'Comments' field is empty. The 'Basic' tab is selected. Under 'Web Server', 'Protocol (http)' is set to 'http', 'Server Name or IP' is set to 'localhost', and 'Port Number' is set to '3000'. The 'HTTP Request' section shows the method set to 'GET' and the 'Path' set to '/users'. The 'Content encoding' field is empty. The 'Redirect Automatically' checkbox is checked, while 'Follow Redirects', 'Use KeepAlive', 'Use multipart/form-data', and 'Browser-compatible headers' are unchecked. The 'Parameters' tab is selected, showing a table with columns 'Name', 'Value', 'Send Parameters With the Request', 'URL Encode?', and 'Content-Type'. The table is currently empty.

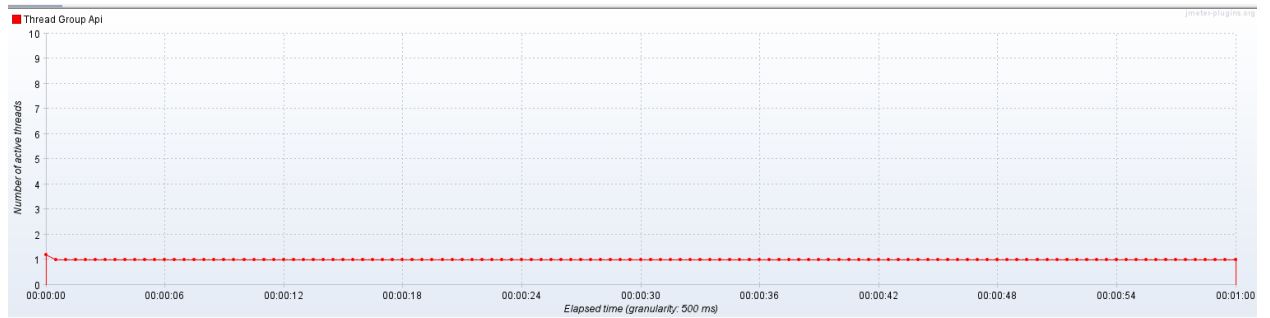
HTTP Request POST

Добавляем нового пользователя в файл json

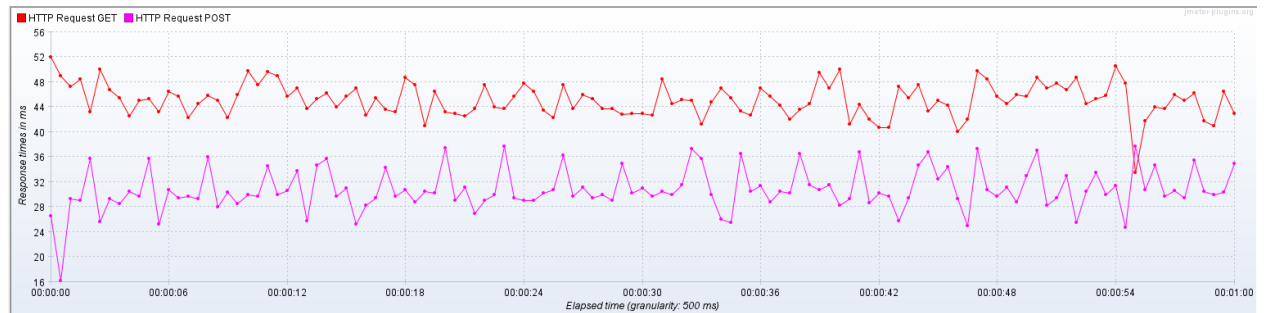
The screenshot shows the 'HTTP Request' configuration window in JMeter. The 'Name' field is set to 'HTTP Request POST'. The 'Comments' field is empty. The 'Basic' tab is selected. Under 'Web Server', 'Protocol (http)' is set to 'http', 'Server Name or IP' is set to 'localhost', and 'Port Number' is set to '3000'. The 'HTTP Request' section shows the method set to 'POST' and the 'Path' set to '/users'. The 'Content encoding' field is empty. The 'Redirect Automatically' checkbox is checked, while 'Follow Redirects', 'Use KeepAlive', 'Use multipart/form-data', and 'Browser-compatible headers' are unchecked. The 'Parameters' tab is selected, showing a table with columns 'Name', 'Value', 'Send Parameters With the Request', 'URL Encode?', and 'Content-Type'. The table contains one row with the following values: 'id' with value '{counter_id}', 'name' with value '{_RandomString(5,quertyuoplkjhgfdsazxcvbnmQUERTYUIOPLKJHGFDSAZXCVBNM)}', and 'age' with value '{_Random(1,100)}'. The 'URL Encode?' checkbox is checked for this parameter.

Графики

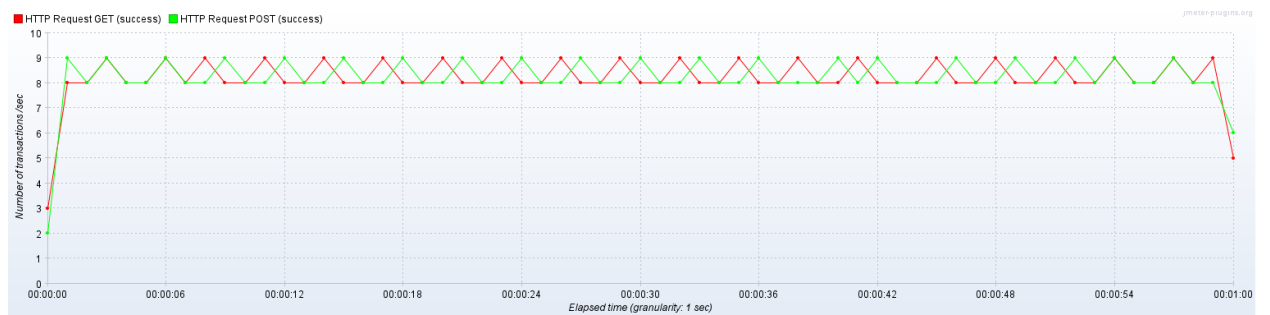
Active Threads Over Time



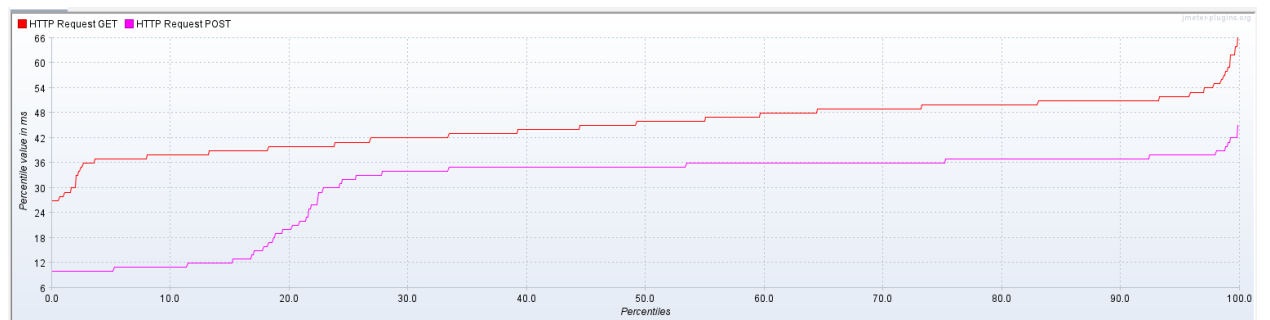
Response Times Over Time



Transactions per Second



Response Times Percentiles



Выводы:

Время ответа GET больше чем время ответа POST. После 20 секунды время ответа POST увеличилось в 3 раза, а так же с увеличением времени тестирования API время ответа постепенно увеличивается, я думаю это связано с тем, что у нас файл json постепенно увеличивается и из за этого каждый последующий запрос GET требует больше ресурсов, при этом количество транзакций в секунду остаются фиксированным 8-10.