

WebstaurantStore

Application Performance Engineering Team

Outlet Product Pages Load Test Results

Testing Date

March 9, 2024

Builds Tested:

Current Production

Tickets:

N/A

The performance testing was performed on testers local environment running Windows 11 Pro with 12 CPU cores, 64GB of DDR5 Ram, premium SSD drives, and up to 1 Gbps network speeds. At the time testing took place, download speeds were benchmarked at 739 Mbps and upload speeds at 39 Mbps.

Note: due to the settings/outlined scenario of this test, not enough data points were collected to be statistically sufficient for an accurate evaluation.

Scope of Work

To test the Outlet Product pages by running a wide array of product GET requests we would expect clients to take. We used the tests to determine the effects of normal operations on performance.

Testing Approach and Scenarios

Testing was performed using JMeter with the following configurations:

- 5 threads (VUs) ramped up over a period of 60 seconds.
- Throughput starting at 1 RPM and ending at 5 RPM after 60 seconds, then maintaining 5 RPM for an additional 14 minutes. [Total test time 15 minutes]
- Randomized sampling of product pages from CSV test driver file.

Performance Expectations

The following expectations for performance were outlined with the help and input of the product team, as well as executive leadership and apply to the 90th percentile response times.

Satisfied – Response times are within 450 ms.

Tolerated – Response times are above 450 ms but under 550 ms.

Frustrated – Response times are above 550 ms.

Summary Statistics

A total of 60 requests were made over the course of 15 minutes with no more than 5 requests per minute. Of said requests, 100% resulted in success. No errors were observed during this time.

Results

The following results outline the performance across 10 different product pages showing the 90th percentile results. Note: due to the configurations on this test, not enough data points were collected

Of the 10 endpoints tested, 7 fell into the satisfied, 1 in the tolerated, and 2 in the frustrated range.

	Satisfied	Tolerated	Frustrated
Small_Cube_Ice_Machine			<u>532</u>
Ice_Storage_Bin	384		
Electric_Convection_Oven	431		
Gas_Countertop_Griddle		466	
Hotel_Ice_Dispenser	396		
Stainless_Steel_Floor_Fryer	418		
Ventless_Conveyor_Oven			<u>570</u>
Liquid_Propane_Wok_Range	439		
Electric_Countertop_Steamer	445		
Countertop_Nugget_Ice_Maker	367		

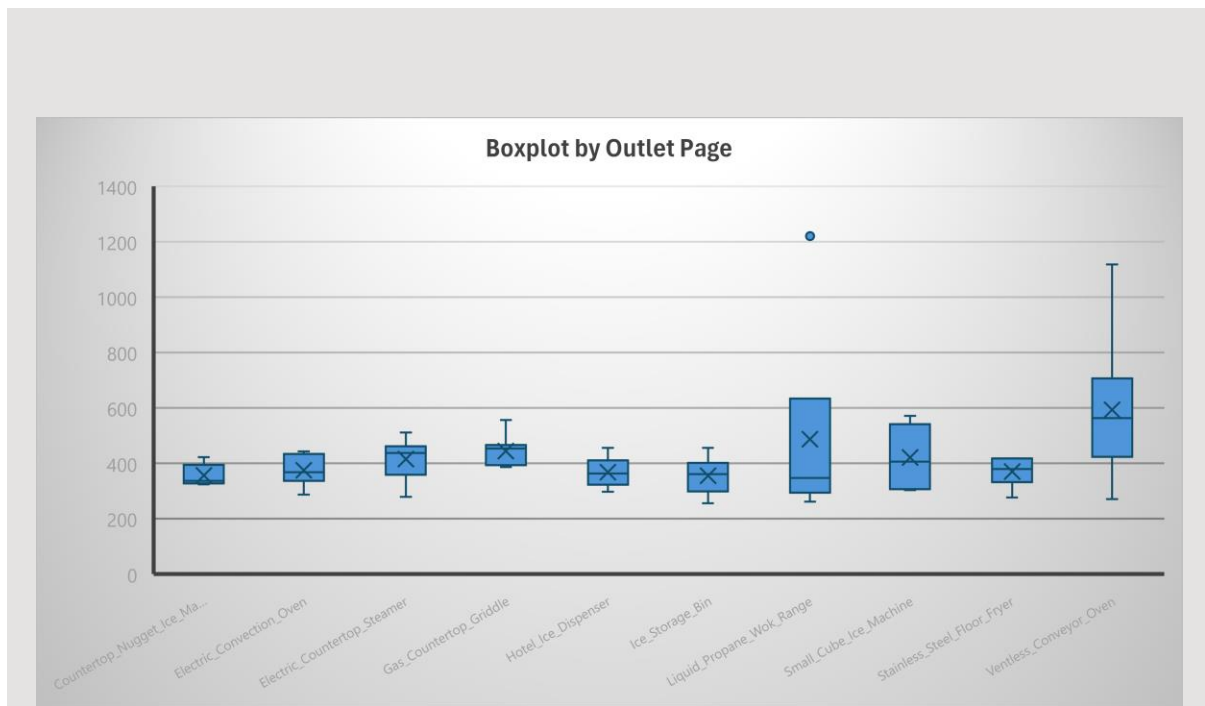
Technical Breakdown

In the figure below, a boxplot shows the distribution of results by page tested. Variances are relatively small in 8 of the 10 pages tested. The pages showing increased variance are:

Liquid_Propane_Wok_Range: outlet/351WOKR13L/67237.html

Ventless_Conveyor_Oven: outlet/93611802VE/66905.html

Of these, one, the Ventless_Conveyor_Oven also shows a frustrated P90 value in the above visual. This endpoint should be under scrutiny and may require further testing.



Executive Summary

APDEX (Application Performance Index) is used to judge the overall performance of an application based on previously outlined expectations by the product teams and leadership. Our range of APDEX scores are as follows:

Satisfied: 85 – 100

Tolerated: 70 – 84

Frustrated: 0 – 69

Based on the load test metrics collected across various Outlet Pages, our calculated APDEX score is

APDEX
75

The performance of the Outlet Pages received a score of 75. This value falls in the Tolerated range for performance. Two endpoints were identified as having potential performance issues. The resolution of these endpoints will significantly aid in increasing our APDEX score.

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