Logotipo

Descripción generada automáticamente

planning report

Grupo E4.01

<https://github.com/danidinogo/DP2-control-check>

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| **Versión** | **Descripción** | **Fecha** |
| v1.0 | Creación inicial | 03/06/2022 |

[**Resumen Ejecutivo 2**](https://docs.google.com/document/d/1Iz0cktPKjHu39pbAay3eq_DrKwixm_A8/edit#heading=h.ya1qrf6jmgyt)

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Resumen ejecutivo

En este documento se recogen los reportes de rendimiento que se han obtenido de la evaluación de los tests del proyecto. Esto nos ayudará a analizar de forma minusciosa el rendimiento que tiene el resultado de la aplicación.

Durante los tests, dependiendo de las condiciones que, por ejemplo podrían ser las cantidades de datos analizadas, concluiremos con una prueba Z (si tenemos más de 50 datos a analizar en el test) o una prueba T (si tenemos menos de 50 datos a analizar).

Estas pruebas nos servirán para concluir si el rendimiento de la aplicación es favorable y tener un punto de vista sobre la eficiencia de ésta.

# Performance Requests

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# Performance Tests

|  |  |  |
| --- | --- | --- |
| **negativeTest Average** | 5803.5 |  |
| **positiveTest Average** | 12895 |  |
| **InventorListChimpumTest Average** | 16528 |  |
| **negativeTest Average** | 6516 |  |
| **positiveTest Average** | 13153.67 |  |
| **Grand Average** | 8537.474 |  |
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# Contraste de Hipótesis

|  |  |  |
| --- | --- | --- |
| *time* | |  |
|  |  |  |
| Mean | 615.0904255 |  |
| Standard Error | 39.20822618 |  |
| Median | 526 |  |
| Mode | 524 |  |
| Standard Deviation | 537.5961124 |  |
| Sample Variance | 289009.58 |  |
| Kurtosis | 93.87662627 |  |
| Skewness | 8.613616762 |  |
| Range | 6485 |  |
| Minimum | 294 |  |
| Maximum | 6779 |  |
| Sum | 115637 |  |
| Count | 188 |  |
| Confidence Level(95.0%) | 77.34728455 |  |
|  |  |  |
| Confidence Interval | 537.743141 | 692.4377 |
| Average request wall time with 95% confidence | range from 0.537s - 0.694s |  |

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| --- | --- | --- |
| *before* | | |
|  |  |  |
| Mean | 615.0904255 |  |
| Standard Error | 39.20822618 |  |
| Median | 526 |  |
| Mode | 524 |  |
| Standard Deviation | 537.5961124 |  |
| Sample Variance | 289009.58 |  |
| Kurtosis | 93.87662627 |  |
| Skewness | 8.613616762 |  |
| Range | 6485 |  |
| Minimum | 294 |  |
| Maximum | 6779 |  |
| Sum | 115637 |  |
| Count | 188 |  |
| Confidence Level(95.0%) | 77.34728455 |  |
|  |  |  |
| Confidence Interval | 537.743141 | 692.4377101 |
| Average request wall time with 95% confidence | range from 0.538s - 0.692s |  |

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| *after* | |  |
|  |  |  |
| Mean | 553.581383 |  |
| Standard Error | 35.28740356 |  |
| Median | 473.4 |  |
| Mode | 471.6 |  |
| Standard Deviation | 483.8365011 |  |
| Sample Variance | 234097.7598 |  |
| Kurtosis | 93.87662627 |  |
| Skewness | 8.613616762 |  |
| Range | 5836.5 |  |
| Minimum | 264.6 |  |
| Maximum | 6101.1 |  |
| Sum | 104073.3 |  |
| Count | 188 |  |
| Confidence Level(95.0%) | 69.61255609 |  |
|  |  |  |
| Confidence Interval | 483.9688269 | 623.1939 |
| Average request wall time with 95% confidence | range from 0.484s - 0.623s | |

# Z-Test con 2 muestras de medias

Al tener más de 50 datos a analizar, usaremos el Test Z que nos permitirá conocer la probabilidad de que la muestra sea mejor que el valor medio observado, que será nuestra métrica de rendimiento y calidad. Esto lo calculamos analizando la información obtenida de las tablas anteriores y comparando las dos medias que se arrojan tanto antes como después de su ejecución.

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| --- | --- | --- |
|  |  |  |
|  |  |  |
|  | *before* | *after* |
| Mean | 615.0904255 | 553.581383 |
| Known Variance | 289009.58 | 234097.7598 |
| Observations | 188 | 188 |
| Hypothesized Mean Difference | 0 |  |
| z | 1.166064261 |  |
| P(Z<=z) one-tail | 0.121794233 |  |
| z Critical one-tail | 1.644853627 |  |
| P(Z<=z) two-tail | 0.243588465 |  |
| z Critical two-tail | 1.959963985 |  |
|  |  |  |
|  |  |  |
| Se concluye que la refactorización es insignificante al estar el valor de P entre Alpha (0.05) y 1 | | |