Performance report

Workgroup number: E8.01
Repository: https://github.com/Pabnunmor/Acme-Toolkits
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Table of Contents

Executive summary

The following document contains the two analyses carried out by the workgroup, regarding the 95% confidence interval for the average wall time taken by the requests to the system, as well as an hypothesis contrast that makes it clear what the most efficient computer is at the 95% confidence level, given that each analysis has been performed on a different computer.

Revision table

Revision number	Date	Description
v1	2022/04/23	Initial version
v2	2022/04/25	Final version

Introduction

The contents of the paper focus on the performance of the system developed by the workgroup by means of an analysis regarding the 95% confidence interval for the average wall time taken by the requests to the system.

Some graphs regarding those requests are shown, as well as some description of them, and a comparison in the end.

Contents

Firstly, two figures are displayed. They are composed of a list of time averages, regarding the time taken to execute groups of requests, on the left, and all that data displayed as a graph, on the right. We have used, as recommended, 2 computers: First, we have computer A, where we can see (figure 1) that times are a bit high because of its lack of computing power. Below we have computer B (figure 2), where we can see that times are a bit lower, just because that computer is a bit faster given that its specifications are better than the former.

simple-path	time
Promedio /administrator/system-configuration/show	1623
Promedio /anonymous/user-account/create	1135,5
Promedio /any/chirp/list-recent	1384,5
Promedio /any/chirp/show	1105,5
Promedio /any/item/list-all	1531,6
Promedio /any/item/show	1423,6
Promedio /authenticated/system-configuration/show	1125
Promedio /inventor/patronage/list	1275,83333
Promedio /inventor/patronage/show	1277,5
Promedio /master/sign-in	969,642857
Promedio /master/welcome	690,906433
Promedio /patron/patronage/list	1712,16667
Promedio /patron/patronage/show	1455,33333
Promedio http://www.example.com	569
Promedio general	858,40873

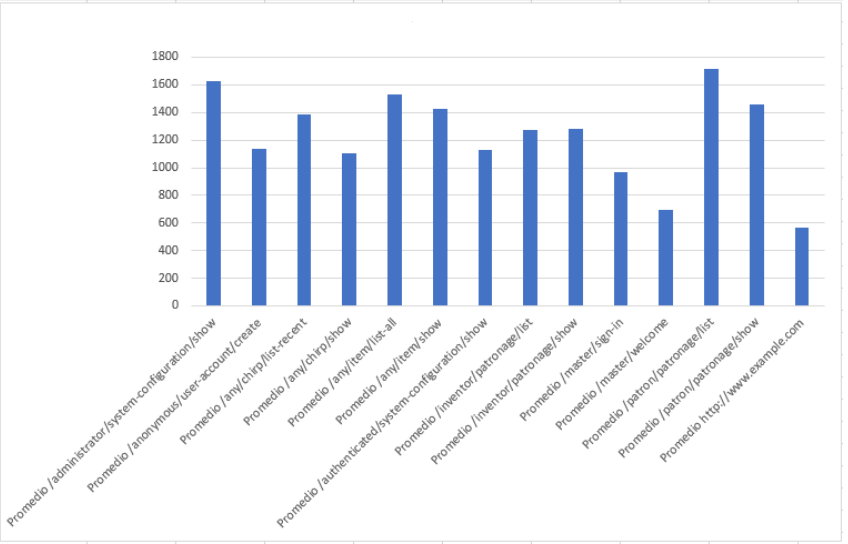

Figure 1. Computer A

simple-path	time
Promedio /administrator/system-configuration/show	1084
Promedio /anonymous/user-account/create	604,0833333
Promedio /any/chirp/list-recent	825
Promedio /any/chirp/show	564,5
Promedio /any/item/list-all	774,2
Promedio /any/item/show	561,6
Promedio /authenticated/system-configuration/show	561
Promedio /inventor/patronage/list	752,1666667
Promedio /inventor/patronage/show	735
Promedio /master/sign-in	619,1785714
Promedio /master/welcome	591,4327485
Promedio /patron/patronage/list	833,8333333
Promedio /patron/patronage/show	743,3333333
Promedio http://www.example.com	561
Promedio general	618,1388889

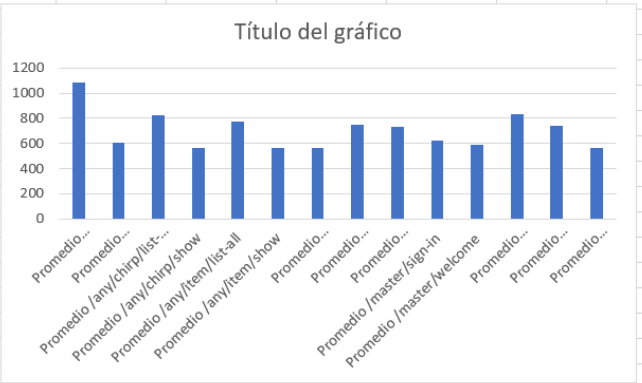

Figure 2. Computer B

In figure 3, we can see below all statistics regarding the data analysis. We have followed the methodologies and we have arrived at those confidence Intervals. As we saw before, computer A has better specifications, so its times are lower. Because of that, we can compare that the Confidence Interval in computer A is much bigger than the one in computer B.

time		
Media	858,4087302	
Error típico	55,30481651	
Mediana	590	
Moda	1091	
Desviación estándar	877,9367448	
Varianza de la muestra	770772,9279	
Curtosis	124,4226155	
Coeficiente de asimetría	9,96991146	
Rango	12033	
Mínimo	422	
Máximo	12455	
Suma	216319	
Cuenta	252	
Nivel de confianza(95,0%)	108,9206365	
Intervalo de confianza:	749,488094	967,329367

Figure 3. Computer A

	time	
Media	618,1388889	
Error típico	20,29401456	
Mediana	564	
Moda	563	
Desviación estándar	322,1574937	
Varianza de la muestra	103785,4508	
Curtosis	131,270899	
Coeficiente de asimetría	10,45145824	
Rango	4436	
Mínimo	496	
Máximo	4932	
Suma	155771	
Cuenta	252	
Nivel de confianza(95,0%)	39,96825452	
Intervalo de confianza	578,1706344	658,1071434

Computer B

Because of this information seen, we can confirm that computer B is a much more efficient computer at the 95% Confidence level.

Conclusions

In conclusion, the results obtained in the content section indicates that computer B is much more efficient at the 95% confidence level.

Bibliography

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