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IT Cost
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Newsletter

October 2024

THIS MONTH HIGHLIGHTS

- **EPV User Group 2024 report**
- **Number of Logical CPs Defined for an LPAR**
- **WSC z/OS Workload Manager Starter Policy and Recommendations**

EPV User Group 2024 report

The XXII EPV User Group has been a great success with the participation of 117 people, representing 38 companies from 10 different countries, in the two conference days.

This year we had 4 tutorial sessions, 4 user presentations, 8 EPV products presentations and 2 sessions providing a technical update on “hot” topics such as crypto and AI.

A link to download the pdf of all the presentations has been sent to all participants.

Number of Logical CPs Defined for an LPAR

This document reviews the IBM Best Practice Recommendation for setting the number of Logical CPs in a z/OS LPAR.

Read it at: <https://www.ibm.com/support/pages/node/6354843>

WSC z/OS Workload Manager Starter Policy and Recommendations

This document details an updated example z/OS Workload Manager (WLM) policy developed by the Washington Systems Center (WSC).

This updated starter policy includes classification examples for new workloads running on IBM Z and examples of new features made available in z/OS Workload Manager in recent years.

The policy was also updated to follow current best practice recommendations from the WSC as of 2024. This includes recommendations related to I/O Priority Management, Service Definition Coefficients, new work classification, a capping service class, CICS management, CPU Critical, service class goals, and other classification guidelines.

Read it at: <https://www.ibm.com/support/pages/node/7162035>



Customer question

Hello everyone,
every year I compare the total monthly CPU consumption and total MIPS used. I have noticed that there was a strange behavior in 2 different months compared to all the other months. The strange behavior was that the total CPU consumption reduced, and the total MIPS increased, compared to the other months. I also just compared all the months that have 30 days. In addition, I divided the total monthly CPU consumption by the total MIPS used and the numbers of CPU seconds for each MIPS were also much smaller than the other months.
Can you explain to me what happened this year ?

EPV Technical Support answer

After making a detailed analysis of the daily CPU consumptions we noticed that on the suspected months the customer changed the hardware configuration from the CEC model 8561-621, with a MIPS capacity estimated at 17624 MIPS, to a CEC model 8561-721, with a MIPS capacity estimated at 30746 MIPS, through Capacity on Demand.
The customer increased the central processor complex capacity for some days in these months.
In these cases, it is important to remember that the machine consumes much less CPU time for the same MIPS consumption.



Performance metrics for CICS transactions

JVM elapsed and suspend time

The JVM elapsed and suspend time are provided in the JVMTIME and JVMSUSP fields (both in the DFHTASK group).

They provide an insight into the amount of time that a transaction spends in a Java Virtual Machine (JVM).

Care must be taken when using these two fields in any calculation with other CMF timing fields because of the likelihood of double accounting.

In some situations, suspension time could be accounted both in JVMSUSP and other suspension time metrics.

For example, if a Java application program invoked by a transaction issues a read file (non-RLS) request using the Java API for CICS (JCICS) classes, the file I/O wait time will be included in:

- FCIOWTT, the file I/O suspension time field;
- SUSPTIME, the total suspension time field;
- JVMSUSP, the JVM suspension time field;
- JVMTIME, the total JVM elapsed time field.

Quotes



"If you have a garden and a library, you have everything you need."

Marcus Tullius Cicero

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