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IT Cost  
Under Control

# EPV Technologies

## Newsletter

April 2020



### EPV Product Lines



Mainframe



Distributed  
Systems



Cross  
Platform

**We have changed but we're still the same**

discover our new logo and our new website!

**THIS MONTH HIGHLIGHTS**

- Is my IBM z15 performing as expected? - Part 2
  - IBM z15 Model T02 announcement
  - IBM z15 Model T02 MIPS tables
  - IBM z15 Technical Introduction - Redbook
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## **Is my IBM z15 performing as expected? - Part 2 -**

Every time a new IBM machine is announced the LSPR benchmarks are published. They provide an indication of the performance of the new machine compared to the existing ones.

Based on these numbers, on the usage of available tools, such as IBM zPCR, and on their capacity planning methodology, customers decide the characteristics of the new machine model which better fit their application needs for the next years.

Once the upgrade has been completed some customers are happy, some are not satisfied, others simply are not able to understand if they get the expected performance benefits.

We regularly receive requests from some customers to help them evaluate the new machine's performance. This has also happened when upgrading to z15.

Their question is always the same:

"Is my new machine performing as expected?".

In this paper we will try to provide suggestions to help you answer this question. All these suggestions are not specific for an upgrade to z15, they also apply to any machine upgrade.

In the final part we will also discuss a real case of migrating from z13 to z15.

**If you want to receive the paper you can reply to this e-mail writing "Is my IBM z15 performing as expected? - Part 1" in the subject**

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## **IBM z15 Model T02 announcement**

“IBM Z servers are designed to help enable cloud-native development and deployment, achieve encryption everywhere, and provide cyber resiliency to protect against the impact of cyber-attacks by ensuring isolation of workloads at scale, by protecting against insider and external threats, and ensuring continuous service by mitigating the impacts of downtime. All of these together can help to provide the cloud you want with the privacy and security you need. The IBM z15 (z15) Model T02 is the newest entry model into the IBM Z family of servers. It delivers an air cooled single-frame efficient design with a lower cost of entry that can easily coexist with other platforms in a cloud data center. The z15 can help protect data and help simplify compliance efforts.”

Announcement available at: [IBM z15 Model T02 announcement](#)

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## **IBM z15 Model T02 MIPS tables**

New EPV MIPS tables including IBM z15 model T02 machines are already available.

Full support of these new machines will be added to all V14 and V15 EPV products in the next weeks.

EPV customers who want to receive the new tables in advance can get them by simply sending an email to EPV support.

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## **IBM z15 Technical Introduction - Redbook**

This IBM Redbooks publication introduces the latest member of the IBM Z platform, the IBM z15. It includes information about the Z environment and how it helps integrate data and transactions more securely. It also provides insight for faster and more accurate business decisions.

The z15 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z15 is designed for enhanced modularity, and occupies an industry-standard footprint. It is offered as a single air-cooled 19-inch frame called the z15 T02, or as a multi-frame (1 to 4 19-inch frames) called the z15 T01.

Download it [here](#)

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## Customer questions

The amount of CPU time accounted to a batch job in the interval records (SMF 30 subtype 2 and 3) is generally a bit lower than the CPU time accounted to the same job in its steps (SMF 30 subtype 4) and job (SMF 30 subtype 5) records.

However, in some cases the difference is not negligible.

What is the reason for that?

### ***EPV Technical Support answer***

*SMF 30 interval records (subtype 2 and 3) account only the CPU used from program start to program end.*

*Interval records don't account the CPU used from the initiator:*

- before the program start; it includes the CPU used to manage data sets enqueues and allocation,*
- after the program end; it includes the CPU used for DD consolidation (if DDCONS=YES in SMFPRMxx) and to write SMF subtype 3 and 4 at step end and subtype 5 at job end.*

*In conclusion, it's normal that the CPU consumptions recorded in SMF 30 interval records are lower than what accounted in the SMF 30 written at end of step or end of job.*

*That difference is normally very small, but it can become meaningful if, for example, very complex SMS rules are used at data set allocation.*

## Acronyms

Acronym	Meaning	Context
ACS	Automatic Class Selection	Data management
BDAM	Basic Direct Access Method	Data management
BPAM	Basic Partitioned Access Method	Data management
BSAM	Basic Sequential Access Method	Data management
DFDSS	Data Facility Data Set Services	Data management
DFHSM	Data Facility Hierarchical Storage Manager	Data management
DFSMS	Data Facility Storage Management Subsystem	Data management
ESDS	Entry Sequenced Data Set	Data management
HFS	Hierarchical File System	Data management
KSDS	Key Sequenced Data Set	Data management
LDS	Linear Data Set	Data management
LFS	Logical File System	Data management
PDS	Partitioned Data Set	Data management
PDSE	Partitioned Data Set Extended	Data management
PFS	Physical File System	Data management
PS	Physical Sequential	Data management
QSAM	Queued Sequential Access Method	Data management
RRDS	Relative Record Data Set	Data management
VSAM	Virtual Storage Access Method	Data management
zFS	Z File System	Data management

## Quotes

*"The secret of change is to focus all of your energy not on the fighting the old, but on building the new"*

**Socrate**

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