



**epv**

IT Cost  
Under Control

# EPV Technologies

## Newsletter

March 2023

### THIS MONTH HIGHLIGHTS

- Measuring zFS performance - Part 2
- EPV Next Generation 2023
- Preview: IBM z/OS 3.1

### Measuring zFS performance - Part 2

The z/OS File System (zFS) is one of the file systems available in z/OS USS (UNIX System Services). However, it's important to note that zFS is the strategic IBM file system and, in general, it provides better performance than the older Hierarchical File System (HFS).

Similarly to HFS, zFS file systems contain files and directories that can be accessed with USS application programming interfaces and can be used for all levels of the USS hierarchy, including the root file system.

zFS usage was initially limited to innovative applications but it is now extended also to the most traditional z/OS workloads such as CICS and IMS.

This is the reason why measuring zFS performance has become more and more important in the last years. Unfortunately, the available documentation about zFS performance analysis and tuning is not very clear and complete yet.

In this paper, after a short introduction to zFS, we will discuss the most relevant parameters which can be set to tune zFS caches.

Then we will look at some powerful zFS commands which can provide a lot of useful performance information.

Finally, we will focus on the available SMF metrics which can be used to measure zFS performance externally, from the z/OS point of view, and internally, from the USS point of view.

If you want to receive the paper you can reply to this e-mail writing "**Measuring zFS performance - Part 2**" in the subject

---

## EPV Next Generation 2023

---

The EPV product suite continues to evolve introducing new products and technologies.

In this virtual conference we will focus on the most recent and interesting of them.

The conference will be held on April 18th and repeated on April 19th 2023.

It is reserved to EPV customers, partners and invited guests.



## AGENDA

Start	End	Description	Speaker
09:45	10:00	Welcome and introduction	Danilo Gipponi
10:00	10:30	EPV integration with Kafka	Matteo Bottazzi
10:45	11:00	Reading the SYSLOG with EPV zParser	Danilo Gipponi
11:00	11:30	coffee break	
11:30	11:45	Heat Maps in EPV	Massimo Orlando
12:00	12:15	Querying the EPV DBs	Stefano Rotunno
12:30	12:45	New info and views for Db2 13 and MQ 9.3	Fabio Massimo Ottaviani
13:00		end of conference	

Subscription form available at: [www.epvtech.com](http://www.epvtech.com)

---

## Preview: IBM z/OS 3.1

---

“IBM z/OS 3.1 marks a new era in operating system intelligence. The new version of z/OS is planned to provide a framework for infusing AI throughout the system, enabling intelligent systems administration guidance and automation that learns and improves.

With z/OS 3.1 as the foundation of a hybrid cloud strategy, enterprises can deploy and co-locate Linux-based applications together with core business workloads and enjoy the unique value propositions of both environments.

Built on over 50 years of continuous innovation, research, and development, z/OS is the core computing platform for the world's top financial institutions, insurers, retailers,

utilities, governments and more. Designed for high availability with quantum-safe technologies, the new z/OS 3.1 will be a resilient platform for the future of industry's most critical workloads.”

Complete announcement at:  
[Preview: IBM z/OS 3.1](#)

---



I activated the writing of SMF 120 subtype 9 records on a WebSphere server with the following command:

```
MODIFY <server>,SMF,REQUEST,ON
```

Records have been produced but I don't find any information about EJB methods, servlets and JSPs.

What am I missing?

***EPV Technical Support answer***

To get measurements about EJB methods, servlets and JSPs you need to activate the CPU usage breakdown section by executing this additional command:

```
MODIFY <server>,SMF,REQUEST,CPU,ON
```

Keep in mind that only information for the first 30 unique things that require container involvement are collected.

For example, if a servlet calls 35 different EJBs, the records will contain information about only the first 29 EJBs, plus 1 servlet.



---

## DSENQSHR

---

When a job is composed by more steps and one step allocates a DD with disposition OLD, NEW or MOD, the entire job will hold an exclusive enqueue on a dataset even if all later steps only read the dataset, or don't use it at all. This exposes to delays due to the contention with other jobs or users who wants to access that dataset.

By using the DSENQSHR parameter in the job card you can allow this enqueue be "downgraded" to shared, if subsequent steps don't allocate it as exclusive.

```
//EPVJOB JOB (ACCT),CLASS=A,MSGCLASS=A,DSENQSHR=ALLOW
```

For the DSENQSHR=ALLOW parameter in the JCL to be honored, the DSENQSHR on the JOBCLASS definition statement in JES2 parameters has to be set to ALLOW (default) or AUTO.

**Quotes**



*"No one can make you feel inferior without your consent."*

**Eleanor Roosevelt**



Copyright © 2023 EPV Technologies, All rights reserved.

If you've received this mail by mistake, or you don't want to receive any more such messages, please send an e-mail to [epv.info@epvtech.com](mailto:epv.info@epvtech.com) with subject "REMOVE". You'll be promptly removed from the list. If you want to subscribe to this list you can do that simply by sending an e-mail to [epv.info@epvtech.com](mailto:epv.info@epvtech.com) with a subject "SUBSCRIBE".

If you've received this mail by mistake, or you don't want to receive any more such messages, please send an e-mail to [epv.info@epvtech.com](mailto:epv.info@epvtech.com) with subject "REMOVE". You'll be promptly removed from the list. If you want to subscribe to this list you can do that simply by sending an e-mail to [epv.info@epvtech.com](mailto:epv.info@epvtech.com) with a subject "SUBSCRIBE".

**Our mailing address is:**

EPV Technologies  
Via Luigi Mancinelli, 106  
Roma, RM 00199  
Italy

[Add us to your address book](#)

Our mailing address is:

EPV Technologies  
Viale Angelico, 54  
Roma, RM 00195  
Italy

Images designed by : [Freepik](#), [Flaticon](#)

---

This email was sent to [carlotta.ottaviani@epvtech.com](mailto:carlotta.ottaviani@epvtech.com)  
[why did I get this?](#) [unsubscribe from this list](#) [update subscription preferences](#)  
EPV Technologies · Via Luigi Mancinelli, 106 · Roma, RM 00199 · Italy

