

# **z/OS V2.5 IBM Education Assistant**

Solution Name: Validate zFS PARM in BPXPRM ROOT, MOUNT statements

Solution Element(s): z/OS UNIX System Services



# Agenda

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- Objectives
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# Trademarks

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- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
  - None

# Objectives

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- Review new capability to validate zFS PARM() keyword in BPXPRM parmlib member ROOT and MOUNT statements:
  - by SETOMVS SYNTAXCHECK command
  - by USS\_PARMLIB Health Check

# Overview

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- Who (Audience)
  - System administrators need the capability to validate zFS PARM()s in BPXPRMxx ROOT and MOUNT statements prior to usage.
- What (Solution)
  - Expand BPXPRM SYNTAXCHECK support in SETOMVS command and USS\_PARMLIB Health Check to include validation of zFS PARM()s.
- Wow (Benefit / Value, Need Addressed)
  - Syntax errors can be more easily and timely identified and removed.

# Overview

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New hardcopy-only message is issued if a syntax error is detected:

BPXI090I ERROR IN PARMLIB MEMBER=*member name* . THE *statement type* STATEMENT FOR FILE SYSTEM *name* CONTAINS AN INVALID VALUE FOR THE PARM() KEYWORD. RETURN CODE=*retcode*, REASON CODE=*rsncode*.

where

*member name* - The name of the parmlib member containing the error.

*statement type* - contains one of the following values:

ROOT - ROOT statement

MOUNT - MOUNT statement

*name* - The file system name specified on the ROOT or MOUNT statement in the BPXPRMxx parmlib member that contains an invalid PARM keyword value.

*retcode* - The return code from zFS.

*rsncode* - 'The reason code from zFS. For an explanation of the return code and reason code see *zOS File System Messages and Codes* .

**Explanation:** The system encountered an error in a parmlib member. The PARM value for the ROOT or MOUNT statement for the specified file system is not recognized by zFS.

**System action :** Parsing of the parmlib member continues.

**Operator Response:** None.

**System programmer response:** Correct the error in the parmlib member before using it.

# Usage & Invocation

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- Sample BPXPRMx1 member snippet:
  - MOUNT FILESYSTEM('FS1.ZFS') TYPE(ZFS) MOUNTPOINT('/fs1') PARM('badparm')

- **setomvs syntaxcheck=(x1)**

BPXO023I THE PARMLIB MEMBER BPXPRMX1 CONTAINS SYNTAX ERRORS.  
REFER TO HARD COPY LOG FOR MESSAGES.

- > Hardcopy Log:

SETOMVS SYNTAXCHECK=(X1)

IEE252I MEMBER BPXPRMX1 FOUND IN SYS1.PARMLIB

**BPXI090I ERROR IN PARMLIB MEMBER=BPXPRMX1. THE MOUNT STATEMENT FOR FILE SYSTEM FS1.ZFS CONTAINS AN INVALID VALUE FOR THE PARM() KEYWORD.**

**RETURN CODE=00000079, REASON CODE=EF096054.**

# Usage & Invocation

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Sample BPXPRMx1 member snippet:

```
MOUNT FILESYSTEM('FS1.ZFS') TYPE(ZFS) MOUNTPOINT('/fs1') PARM('badparm')
```

>Run USS\_PARMLIB Health Check:

```
F JHCHC,RUN,CHECK=(IBMUSS,USS_PARMLIB)
```

```
HZS0400I CHECK(IBMUSS,USS_PARMLIB):
```

```
RUN PROCESSING HAS BEEN COMPLETED
```

```
BPXH046E Syntax error(s) were found in the parmlib members.
```

```
IEE252I MEMBER BPXPRMX1 FOUND IN SYS1.PARMLIB
```

```
BPXI090I ERROR IN PARMLIB MEMBER=BPXPRMX1. THE MOUNT STATEMENT FOR  
FILE SYSTEM FS1.ZFS CONTAINS AN INVALID VALUE FOR THE PARM() KEYWORD.  
RETURN CODE=00000079, REASON CODE=EF096054.
```



# Interactions & Dependencies

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- Software Dependencies
  - None
- Hardware Dependencies
  - None
- Exploiters
  - None

# Upgrade & Coexistence Considerations

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- To exploit this solution, all systems in the Sysplex must be at the new z/OS level:  
No

# Installation & Configuration

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- None

# Summary

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- SETOMVS SYNTAXCHECK command and USS\_PARMLIB health check now have the capability to detect syntax errors in BPXPRMxx parmlib members for zFS ROOT and MOUNT statements
  - The PARM() keyword is validated by zFS.
  - New message BPXI090I is issued when a PARM() syntax error is detected.
  - The accompanying Return Code and Reason Code provide the details about error.

# Publication References

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- MVS System Messages Vol 3
- *zOS File System Messages and Codes*