z/OS PARMLIB Successful Practices - User Experience

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Session 9800

Agenda

- WAC PARMLIB Philosopy
- WAC PARMLIB Member Update Method
- Summary
- Finally…

WAC PARMLIB Philosophy

- WAC is "World According to Conley"
- Hopefully WAC is not too wack
- WAC PARMLIB philosophy makes ease of installation and backout paramount, all other considerations are secondary
- Keep operator interaction to absolute minimum
  - Minimize HMC and console input for install and backout
  - Do not allow prompt for PARMS at IPL
  - Initialization Message Suppression Indicator (IMSI) character
  - z/OS System Commands documents 7th position of load parm
  - IMSI 'M' overrides PROMPT for master cat and sysparms
  - Load parm xxxx00**M**1

WAC PARMLIB Philosophy

- PARMLIB is not shared, and resides on primary res volume

- PARMLIB concatenation
  - SYS1.IBM.PARMLIB (members change only with maintenance)
  - SYS1.PARMLIB (customized PARMLIB on res volume)

- SYSy.IPLPARM(LOADxx) for new res

```
IODF       00 SYS1
SYSCAT     ZTMCAT133CATALOG.MASTER.TEST
NUCLST     00
NUCLEUS    1
IEASYM     00
PARMLIB    SYS1.IBM.PARMLIB                              ******
PARMLIB    SYS1.PARMLIB                                 ******
```

WAC PARMLIB Philosophy

- Active members are suffixed with "00"

- Backup members suffixed with "99"

- Installed with IPL, and backed out with IPL

- For install and backout, operator changes load address only

  - Minimizes input

  - No need for R 00,CLPA,SYSP=99,PROG=99,SVC=99, etc.

  - No need for LOADxx member pointing to backup PARMLIB

  - No need to modify LOAD parm for backup LOADxx member

- No need to copy or flip backup members in PARMLIB

- No need to use symbols, &SYSCLONE, etc.

WAC PARMLIB Member Update Method

- Standard PARMLIB update method has drawbacks
- Primary drawback is loss of update history
- WAC PARMLIB update method preserves update history
- What did they do, and when did they do it?
- Enables the guilty to be apprehended and punished

WAC PARMLIB Member Update Method

- IBMUSER will modify EDGRMM00 and IKJTSO00

```
Menu   Functions  Confirm  Utilities  Help
----------------------------------------------------------------------
EDIT               USER.PARMLIB                         Row 00001 of 00004
Command ===>                                            Scroll ===> CSR
          Name      Prompt       Size   Created       Changed          ID
_____ EDGRMM00                23    2011/06/22  2011/06/22 19:46:21  TCONLEY
_____ EDGRMM99                23    2011/06/20  2011/06/20 15:31:00  IBMUSER
_____ IKJTSO00               127    2011/06/22  2011/06/22 19:50:41  TCONLEY
_____ IKJTSO99               127    2011/06/20  2011/06/20 15:30:00  TCONLEY
```

- A common practice is to edit EDGRMM00 and to populate backup member EDGRM99 REPLACE C99999

WAC PARMLIB Member Update Method

- After completing edit on EDGRMM00, stats for EDGRMM99 look like this:

```
 Menu   Functions  Confirm  Utilities  Help
---------------------------------------------------------------------------
EDIT               USER.PARMLIB                          Row 00001 of 00004
Command ===>                                             Scroll ===> CSR
         Name       Prompt       Size   Created      Changed           ID
_____ EDGRMM00                 23   2011/06/22  2011/08/01 16:18:32  IBMUSER
_____ EDGRMM99                 23   2011/08/01  2011/08/01 16:16:49  IBMUSER
_____ IKJTSO00                127   2011/06/22  2011/06/22 19:50:41  TCONLEY
_____ IKJTSO99                127   2011/06/20  2011/06/20 15:30:00  TCONLEY
```

- Note how stats for EDGRMM99 (old EDGRMM00) are lost

- Created set to current date, Changed set to current date/time, and ID is IBMUSER instead of TCONLEY

WAC PARMLIB Member Update Method

- Let's edit IKJTSO00, but in a way that preserves history
- Edit IKJTSO00 and CREATE IKJTSO08 with C99999
- Cancel out of IKJTSO00 and edit IKJTSO08 for changes

```
  Menu   Functions   Confirm   Utilities   Help
 -------------------------------------------------------------------------
 EDIT               USER.PARMLIB                        Row 00001 of 00004
 Command ===>                                            Scroll ===> CSR
            Name     Prompt        Size   Created      Changed          ID
 _____ EDGRMM00               23    2011/06/22  2011/08/01 16:18:32  TCONLEY
 _____ EDGRMM99               23    2011/08/01  2011/08/01 16:16:49  IBMUSER
 _____ IKJTSO00              127    2011/06/22  2011/06/22 19:50:41  TCONLEY
 _____ IKJTSO08              128    2011/08/01  2011/08/01 16:28:20  IBMUSER
 _____ IKJTSO99              127    2011/06/20  2011/06/20 15:30:00  TCONLEY
```

WAC PARMLIB Member Update Method

- Delete IKJTSO99, rename IKJTSO00 to IKJTSO99, and rename IKJTSO08 to IKJTSO00

```
Menu   Functions  Confirm  Utilities  Help
-------------------------------------------------------------------------------
EDIT              USER.PARMLIB                          Row 00001 of 00004
Command ===>                                            Scroll ===> CSR
         Name      Prompt      Size  Created     Changed             ID
_____ EDGRMM00              23   2011/06/22  2011/08/01 16:18:32  IBMUSER
_____ EDGRMM99              23   2011/08/01  2011/08/01 16:16:49  IBMUSER
_____ IKJTSO00             128   2011/08/01  2011/08/01 16:28:20  IBMUSER
_____ IKJTSO99             127   2011/06/22  2011/06/22 19:50:41  TCONLEY
```

- Note that IKJTSO99 retains original created date, original changed date and time, and original id from IKJTSO00

Summary

- Discussed speaker's PARMLIB philosophy
- Reviewed multiple different PARMLIB philosophies
- Discussed speaker's PARMLIB member update method
- Reviewed how to preserve PARMLIB update history

Finally…

- Let me know what you think and how you manage PARMLIB
- Please Email me with comments and/or questions
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