PDSMAN – Member Versions

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17410

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Member Versions

- Features
  - Allows up to 99 versions of a PDS or PDSE member
  - Easily and quickly restore a member
  - Previous versions can be used to monitor changes made

- Can be used with the following batch programs:

Program	Description
FASTCOPY	Copy, move, rename and delete member versions • Replacement for IBM's IEBCOPY
PDSM32	List, rename and delete member versions

- The next few slides demonstrate how to activate and use member versions

Agenda

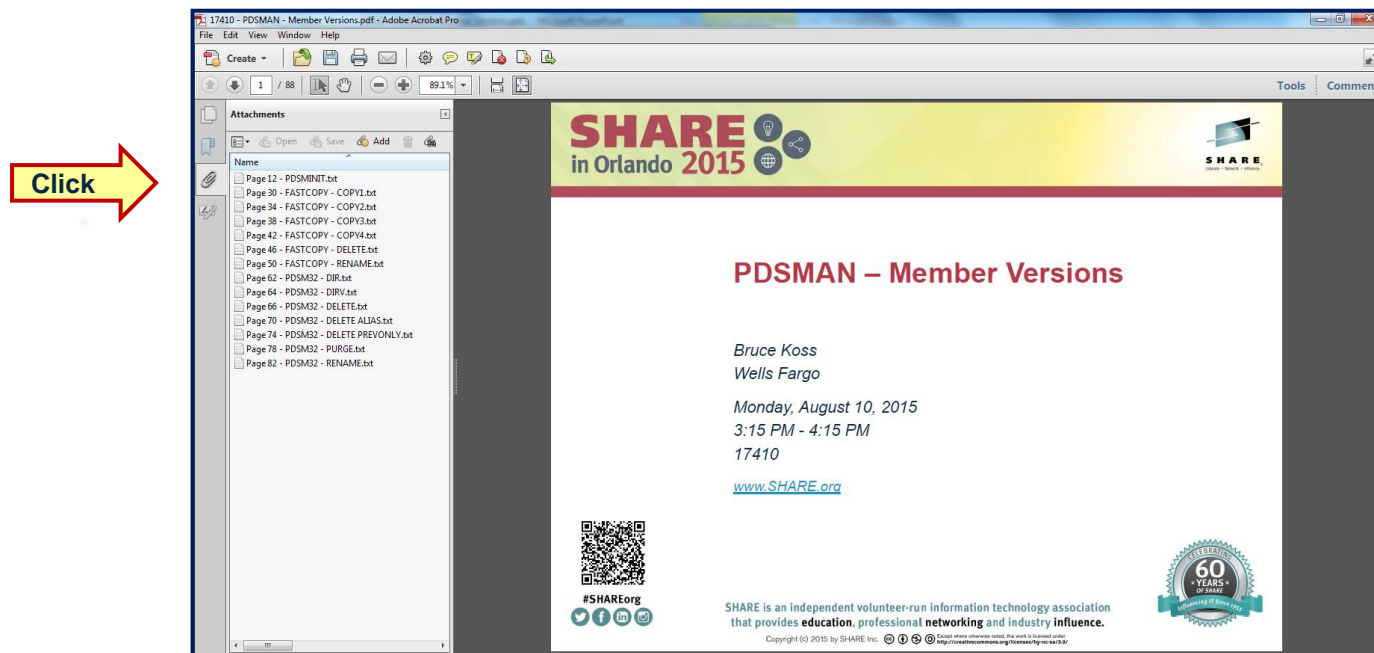| Topic	Description
Implementation	Activate member versions
EZYEDIT	Describe and demonstrate member versions
FASTCOPY	Copy, move, rename and delete member versions
PDSM32	List, rename and delete member versions
Links	PDSMAN and other slide decks
Conclusion	Final comments

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Attachments (📎)

- The following attachments are included in this document:

File	Type
Page 12 – PDSMINIT	TXT
Page 30 – FASTCOPY – COPY1	TXT
Page 34 – FASTCOPY – COPY2	TXT
Page 38 – FASTCOPY – COPY3	TXT
Page 42 – FASTCOPY – COPY4	TXT
Page 46 – FASTCOPY – DELETE	TXT
Page 50 – FASTCOPY – RENAME	TXT
Page 62 – PDSM32 – DIR	TXT
Page 64 – PDSM32 – DIRV	TXT
Page 66 – PDSM32 – DELETE	TXT
Page 70 – PDSM32 – DELETE ALIAS	TXT
Page 74 – PDSM32 – DELETE PREVONLY	TXT
Page 78 – PDSM32 – PURGE	TXT
Page 82 – PDSM32 – RENAME	TXT

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Attachments (📎)

- Invoke Adobe Reader and click the 'Attachments' button on the left side of the navigational panel of the main Reader window

Disclaimers

- Must use Adobe Reader to view attachments
  - (📎) signifies attachment

- May need to adjust the Adobe Reader zoom value to view text

- Commands and screens may be slightly different depending on the operating system's version and release level
  - These commands and screen prints were executed on
    - PDSMAN/EZYEDIT V7.70 and z/OS V2R1

- Security may prevent access to panels or executing commands

- For more detailed information, please reference the following manual:
  - CA PDSMAN PDS Library Management
    - Member Archiving and Recovery Facilities
      - Chapter 10: Multiple Member Version Support

Implementation

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Activation

- To implement multiple member version support for a single member, a library or a group of libraries, update PDSMAN's PDSMINIT parameter
  - Code the $UPDATE control statement with LIB= and VERSIONS=

- The next few slides demonstrate how to implement member versions for PDS datasets

- Notes
  - This section is for the systems programmer who installs and maintains PDSMAN
  - All others can skip this section and go directly to the EZYEDIT section

$UPDATE

- The following are parameters for the $UPDATE control statement:

Parameter	Description
LIB=string	Library dataset name or pattern + Represents a single character - Represents a string
MEM=string	Member name or pattern + Represents a single character - Represents a string
VERSIONS=[0-99]	The number of previous versions (1 to 99) of a member to keep in the library • The default (VERSIONS=0) is to maintain only the current version of the member and not to maintain any previous versions

$UPDATE

- The following are parameters for the $UPDATE control statement:

Parameter	Description
ROLLBACK=[Y|N]	When multiple member versions are being maintained in the library (VERSIONS parameter), this parameter indicates if previous member versions should be rolled back when the current member is deleted. For example, when member X is deleted, X(-1) is renamed to X, X(-2) is renamed to X(-1) and so on
	Y Previous member versions are rolled back when the current member is deleted (default)
	N Previous member versions are not rolled back when the current member is deleted

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EZYEDIT

- From the EZYEDIT selection panel, type in B or E in the Function field, type in PDSMINIT in the DSN/Variable # field and press ENTER

```
------------------- PDSMAN 7.70 - Ezyedit Selection Panel  -------------------
COMMAND ===>                                                  SCROLL ===> CSR

Function          ===> B              06:41              Project ===>
DSN/Variable # ===> PDSMINIT                             Group   ===>
Member Name       ===>                                   Type    ===>
Volume Serial   ===>              Printer ===>           Profile ===>

  1 DSN= /*------- DATASETS -------*/      2 DSN= /*------ TSO COMMANDS -----*/
  3 DSN= 'TSTSS.R2221.JCL.*'               4 DSN= TSO LISTC
  5 DSN= 'TSTSS.R2221.JCL.CNTL(JCL*)'      6 DSN= TSO SYSID
  7 DSN= 'TSTSS.R2221.JCL.CNTL(TST%0*)'    8 DSN= TSO WHOAMI
  9 DSN=                                  10 DSN=
 11 DSN= /*---- PERSONAL LISTS ----*/     12 DSN= /*--- EZYEDIT COMMANDS ---*/
 13 DSN= @MYISPF                          14 DSN= APFLIST
 15 DSN= @MYDSNS                          16 DSN= LLALIST
 17 DSN=                                  18 DSN= LNKLIST
 19 DSN= /*-- ALLOCATION DISPLAY --*/     20 DSN= LPALIST
 21 DSN= F(*)                            22 DSN= PDSMINIT
 23 DSN= F(ISP*)                         24 DSN=
 25 DSN= F(SYSPROC)                      26 DSN=

 Press F1   Key for Tutorial and Command Summary
```

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PDSMINIT (📎)

- From the primary command line, type in F $UPDATE and press ENTER

```
   Menu   Utilities   Compilers   Help
 --------------------------------------------------------------------
 BROWSE      DVPSS.PDSMAN.R770M04.PARMLIB(PDSMINIT) - 7 Line 00000000 Col 001 080
 Command ===> F $UPDATE                                        Scroll ===> CSR
 ******************************* Top of Data ********************************
 *** NOTE: PDSMINIT is unique per sysplex.                              *
 *** NOTE: Do *NOT* copy across sites without checking for differences.*
 *=====================================================================*
 *   PURPOSE:  Wells Fargo Change Log                                   *
 *---------------------------------------------------------------------*
 * FLG   YYMMDD   USERID    DESCRIPTION                                 *
 * ---   ------   -------   ------------------------------------------- *
 * @A6   140611   R2214     Add IBM File Mgr commands to USRCMDs        *
 * @A5   120606   R2214     Activate ELOCs support; new $LLA/$UPDATE libs *
 * @A4   120125   R2214     Uncomment/activate FASTCOPY (IEBCOPY frontend)*
 * @A3   110811   R2214     Turn on member versioning for TSAPLEX parmlibs*
 * @A2   110508   R2221     Chged cmds to use alias, can't use I2/F1/etc. *
 * @A1   110209   R2221     Prevent "Confirmation Panel" from displaying  *
 * @A0   110207   R2214     Implemented PDSMAN                          *
 *=====================================================================*
 ***********************************************************************
 **                                                                 **
 **   PDSMINIT - Sample PDSMAN Initialization Control Statements    **
 **                                                                 **
```

PDSMINIT (📎)

- Uncomment the $UPDATE control statement and insert a dataset name in the LIB= parameter and a number in the VERSIONS= parameter

```
   Menu   Utilities   Compilers   Help
 -------------------------------------------------------------------------------
 BROWSE     DVPSS.PDSMAN.R770M04.PARMLIB(PDSMINIT) - 7 Line 00000144 Col 001 080
 Command ===>                                                    Scroll ===> CSR
 *=======================================================================*
 *==                                                              ==*
 *==   $UPDATE  - Member Update Processing Control                ==*
 *==                                                              ==*
 *==   $UPDATE control statements direct PDSMAN processing related ==*
 *==   to the updating of partitioned library members. Parameters ==*
 *==   on $UPDATE statements control a number of PDSMAN facilities. ==*
 *==                                                              ==*
 *==   Note: More specific control statements that specify a member ==*
 *==         pattern are coded before less specific statements.   ==*
 *==                                                              ==*
 *=======================================================================*
 $UPDATE   LIB=SYS1.PARMLIB.TSAGRP1
           VERSIONS=2                /* Create (-1) and (-2) versions    *
 $UPDATE   LIB=SYS1.PARMLIB.TSAGRP2
           VERSIONS=2                /* Create (-1) and (-2) versions    *
 $UPDATE   LIB=PRDES.R1095.STC.PARMLIB
           VERSIONS=2                /* Create (-1) and (-2) versions    *
 $UPDATE   LIB=PRDSS.R2221.MEMBER.-
           VERSIONS=9                /* Create (-1) to  (-9) versions    *
```

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SDSF LOG – F PDSMAN,NEWRULES

- To activate the new parameters, invoke SDSF LOG, issue the MVS command F PDSMAN,NEWRULES and press ENTER

```
   Display  Filter  View  Print  Options  Search  Help
   ----------------------------------------------------------------------
   SDSF OPERLOG   SDV27    05/20/2015    11W                  COLUMNS 52- 131
   COMMAND INPUT ===> /F PDSMAN,NEWRULES                        SCROLL ===> CSR
   0010   CONNECTED LASTS(150519224713)
   0010   ING819I BCPII ROUTE NVS21/AUTHW006 - O2CFS/R/IBM390PS.O2CFS 930
   0010   CONNECTED LASTS(150519224653)
   0210   IEF196I IEF237I F910 ALLOCATED TO SYS23919
   0210   IEF196I IEF285I    PRDHC.#TCPXX.TCPPARMS                       KEPT
   0210   IEF196I IEF285I    VOL SER NOS= SALIB1.
   0210   IEF196I IEF237I F910 ALLOCATED TO SYS23922
   0210   IEF196I IEF285I    PRDHC.#TCPXX.TCPPARMS                       KEPT
   0210   IEF196I IEF285I    VOL SER NOS= SALIB1.
   0210   IEF196I IEF237I F910 ALLOCATED TO SYS23925
   0210   IEF196I IEF285I    PRDHC.#TCPXX.TCPPARMS                       KEPT
   0210   IEF196I IEF285I    VOL SER NOS= SALIB1.
   0200   OPSNC01W OPSMVS/NETCOOL LINK CHECK FOR SDV28 20150520 09:16:15
   0200   OPS1181O OPSIPSOC OPSS (*Local*) MVS N/A RSSERVER RSSHB NC
   0205   RSSHB NC
   0200   OPSNC00C OPSMVS/NETCOOL LINK OKAY ON SDV28 20150520 09:16:15
   0200   OPS3724O TSO TOD.CPRECOVR Sent CMD=OI CPRECOVR
   0200   OPS3092O OI CPRECOVR
   0200   OPS3092O READY
   0201   ETCL300I Database update commencing
```

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SDSF LOG – Messages

- Page down to view the PDSM* messages

```
   Display  Filter  View  Print  Options  Search  Help
  -------------------------------------------------------------------
  SDSF OPERLOG  SDV27    05/20/2015    11W                COLUMNS 52- 131
  COMMAND INPUT ===>                                      SCROLL ===> CSR
  0201  F PDSMAN,NEWRULES
  0201  PDSMOPR-00 Input -> NEWRULES
  0201  PDSM00-34  PDSMAN RELEASE 7.70        ACTIVE - LAST INIT 05/20/2015
        AT 08:53
  0201  PDSM00-1   PDSMAN BLDL/STOW INTERFACE RE-INITIALIZATION COMPLETE.
        PDSMBSI ADDRESS IS 00FB4C70
  0201  PDSMOPR-07 PDSM00   Requested  Processing Completed, RC=0000
  0210  IEF196I IEF237I F910 ALLOCATED TO SYS11362
  0210  IEF196I IEF285I    PRDHC.#TCPXX.TCPPARMS                     KEPT
  0210  IEF196I IEF285I    VOL SER NOS= SALIB1.
  0210  IEF196I IEF237I F910 ALLOCATED TO SYS11365
  0210  IEF196I IEF285I    PRDHC.#TCPXX.TCPPARMS                     KEPT
  0210  IEF196I IEF285I    VOL SER NOS= SALIB1.
  0210  IEF196I IEF237I F910 ALLOCATED TO SYS11368
  0210  IEF196I IEF285I    PRDHC.#TCPXX.TCPPARMS                     KEPT
  0210  IEF196I IEF285I    VOL SER NOS= SALIB1.
  0200  OPS1181O OPSIPSOC OPSS (*Local*) MVS N/A RSSERV RSSHB NC
  0205  RSSHB NC
  0200  OPSNC00C OPSMVS/NETCOOL LINK OKAY ON SDV27 20150520 09:16:24
  0201  ETCL310I Database update completed
```

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Notes

- Due to the increased number of members, the primary and secondary space may need to be increased for PDS or PDSE datasets
  - Additionally, for PDS datasets, the directory space may need to be increased

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EZYEDIT

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Overview

- The next few slides will describe and demonstrate how to use member versions in EZYEDIT

Description

- Member versions allow up to 99 versions of each member

- Older member versions are maintained using names beginning with X'FE', followed by a compressed hexadecimal representation of the original member name

- Performance is not impacted because the older version names are maintained near the end of the PDS directory

- The current existing versions are decreased by one, i.e. the current (0) version becomes the (-1) version, the current (-1) version becomes the (-2) version, and so on

Description

- If the number of versions being maintained exceeds the value specified by the VERSIONS=nn parameter, the oldest version is deleted

- When the current (0) version of a member is deleted, the minus one (-1) version becomes the new current version (0) and so on

- Member versions are shown in the Rename column

- Member versions can be browsed, compared, renamed or deleted
  - Can not rename to another existing version
  - Previous versions (-1, -2, etc.) cannot be edited

EZYEDIT

- Displaying a PDS dataset with member versions using EZYEDIT, version numbers are displayed in the Rename column

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                               SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name        Rename      VV.MM  Created     Changed         Size  Ident
           TEST01                  01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01     (-1)         01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01     (-2)         01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01     (-3)         01.01  15/07/28  15/07/28 06:05       1  R2221
           TEST01     (-4)         01.00  15/07/28  15/07/28 06:05       1  R2221
***************************** Bottom of Data *****************************
```

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ISPF 3.4

- Displaying a PDS dataset with member versions using IBM's ISPF 3.4

```
   Menu   Functions  Confirm  Utilities  Help
 -------------------------------------------------------------------------
 BROWSE              PRDSS.R2221.MEMBER.VERSIONS          Row 0000001 of 0000005
 Command ===>                                                  Scroll ===> CSR
            Name       Prompt       Size   Created        Changed          ID
 _____ TEST01                     1   2015/07/28  2015/07/28 06:06:08  R2221
 _____ ........                   1   2015/07/28  2015/07/28 06:06:04  R2221
 _____ ........                   1   2015/07/28  2015/07/28 06:06:01  R2221
 _____ ........                   1   2015/07/28  2015/07/28 06:05:57  R2221
 _____ ........                   1   2015/07/28  2015/07/28 06:05:52  R2221
            **End**
```

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Member – SAVE

- Edit and SAVE the member; the new member becomes the (0) version and the current existing versions are decreased by one

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) ---------------------- Row 1 of 6
COMMAND ===>                                                  SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name      Rename      VV.MM  Created    Changed         Size  Ident
           TEST01                01.02  15/07/28  15/07/28 06:07      1  R2221
           TEST01    (-1)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01    (-2)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01    (-3)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01    (-4)        01.01  15/07/28  15/07/28 06:05      1  R2221
           TEST01    (-5)        01.00  15/07/28  15/07/28 06:05      1  R2221
****************************** Bottom of Data ******************************
```

Member – DELETE

- When the current (0) version member is deleted, the minus one (-1) version becomes the version (0) and so on

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                            SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename       VV.MM  Created      Changed        Size  Ident
           TEST01                  01.01  15/07/28  15/07/28 06:06      1   R2221
           TEST01       (-1)       01.01  15/07/28  15/07/28 06:06      1   R2221
           TEST01       (-2)       01.01  15/07/28  15/07/28 06:06      1   R2221
           TEST01       (-3)       01.01  15/07/28  15/07/28 06:05      1   R2221
           TEST01       (-4)       01.00  15/07/28  15/07/28 06:05      1   R2221
***************************** Bottom of Data *****************************
```

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Member – DIFF

- To display the difference between the (0) and (-1) versions, type in DIFF in the Command column and (-1) in the Rename column

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                              SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command     Name        Rename       VV.MM   Created      Changed       Size   Ident
DIFF        TEST01      (-1)         01.01   15/07/28  15/07/28 06:06     1    R2221
            TEST01      (-1)         01.01   15/07/28  15/07/28 06:06     1    R2221
            TEST01      (-2)         01.01   15/07/28  15/07/28 06:06     1    R2221
            TEST01      (-3)         01.01   15/07/28  15/07/28 06:05     1    R2221
            TEST01      (-4)         01.00   15/07/28  15/07/28 06:05     1    R2221
****************************** Bottom of Data ******************************
```

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Member – DIFF – Result

- Displays the difference between the (0) and (-1) versions

```
EZYEDIT Utility Report ---------------------------------------- Row 1 of 9
COMMAND ===>                                           SCROLL ===> CSR

PDSM33-23 Parm='DIFF,SPF,SEQ=73-80'


PDSM33-14 Base     Dataset:    PRDSS.R2221.MEMBER.VERSIONS(TEST01) AMD006
PDSM33-15 New      Dataset:    PRDSS.R2221.MEMBER.VERSIONS(TEST01(-1)) AMD006
PDSM33-28 Comparing files
*  Deleted *    TEST NUMBER E
* Inserted *    TEST NUMBER D
PDSM33-63 DIFF processing complete. RC=4
****************************** Bottom of Data ******************************
```

FASTCOPY

Overview

- Multiple member versions can be moved, copied, renamed and deleted by the FASTCOPY utility (IEBCOPY replacement)

- Can specify the version on the MEMBER= parameter

- The next few slides will demonstrate how to use member versions with FASTCOPY

MEMBER=

- The MEMBER= parameter can be coded as follows:

Member=	Description
ABC(-n)	Specifies the (-n) version of member ABC
ABC(<-n)	Specifies all previous versions of ABC older than ABC(-n)
ABC(>-n)	Specifies ABC and all previous versions of ABC more recent than ABC(-n)
ABC(-*)	Specifies all previous versions (only) of member ABC
ABC(*)	Specifies member ABC and all of its previous versions

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FASTCOPY – COPY1 (📎)

- Copy the member (0)

```
   Menu   Utilities   Compilers   Help
 ----------------------------------------------------------------------
 BROWSE      PRDSS.R2221.FASTCOPY.EXAMPLES(COPY1) - 01. Line 00000000 Col 001 080
 Command ===>                                            Scroll ===> CSR
 ******************************** Top of Data ********************************
 //@SSCOPY1 JOB (SST),'COPY',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*------------------------------------------------------------------*
 //*  PURPOSE:  COPY MEMBER(0)
 //*------------------------------------------------------------------*
 //FASTCOPY EXEC PGM=IEBCOPY
 //SYSPRINT DD   SYSOUT=*
 //SYSUT1   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //SYSUT2   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS.NEW
 //SYSIN    DD   *
 COPY      INDD=((SYSUT1,R)),OUTDD=SYSUT2
 SELECT    MEMBER=(TEST01)
 ***************************** Bottom of Data ********************************
```

FASTCOPY – COPY1 – Results

- SYSPRINT report after executing COPY

```
   Display  Filter  View  Print  Options  Search  Help
 ------------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSCOPY1 J0414951  DSID   102 LINE 0      COLUMNS 02- 81
 COMMAND INPUT ===>                                           SCROLL ===> CSR
 ******************************** TOP OF DATA ********************************
 PDSMAN       r7.70                              FASTCOPY FACILITY       28
 ** PDSMFCPD ** DV27
 FCO100I PDSMAN FASTCOPY PROCESSING ACTIVE      07/28/2015   06:13:09  JOBNAME @SS
 FCO105I   COPY       INDD=((SYSUT1,R)),OUTDD=SYSUT2
 FCO105I   SELECT    MEMBER=(TEST01)
 FCO110I COPYING TO    PDS    OUTDD=SYSUT2    VOL=AMD001 DSN=PRDSS.R2221.MEMBER.VERS
 FCO111I          FROM PDS    INDD=SYSUT1     VOL=AMD006 DSN=PRDSS.R2221.MEMBER.VERS
 FCO141M TEST01              COPIED
 FCO164U INPUT   MBRS      5 TOTAL      1 COPIED       4 NOT COPIED
 FCO165U OUTPUT MBRS      1 TOTAL      1 ADDED        0 REPLACED
 FCO200U EXCPS            6 TOTAL      4 INPUT        2 OUTPUT
 FCO170U DIR BLKS      100 TOTAL      1 USED        99 UNUSED
 FCO180U TRACKS        150 TOTAL      3 USED       147 UNUSED
 FCO190U EXTENTS         1 TOTAL      1 USED         0 UNUSED
 FCO210U STORAGE     1102K ALLOC  1102K USED
 FCO220U 00.00.00.03 SECS ELAPSED  00.00.00.00 TCB CPU  00.00.00.00 SRB CPU
 FCO230I PDSMAN FASTCOPY PROCESSING COMPLETE    07/28/2015   06:13:09  CC=00
 ******************************** BOTTOM OF DATA *****************************
```

FASTCOPY – COPY1 – SYSUT1

- SYSUT1 contained the below members

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                                SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name      Rename      VV.MM  Created      Changed        Size  Ident
           TEST01                01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01    (-1)        01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01    (-2)        01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01    (-3)        01.01  15/07/28  15/07/28 06:05       1  R2221
           TEST01    (-4)        01.00  15/07/28  15/07/28 06:05       1  R2221
**************************** Bottom of Data ****************************
```

FASTCOPY – COPY1 – SYSUT2

- SYSUT2 was originally empty, but now contains TEST01 (0)

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS.NEW (AMD001) ------------------ Row 1 of 1
COMMAND ===>                                                    SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename      VV.MM  Created      Changed       Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06    1   R2221
****************************** Bottom of Data ******************************
```

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FASTCOPY – COPY2 (📎)

- Copy the member (-2)

```
   Menu   Utilities   Compilers   Help
 --------------------------------------------------------------------------
 BROWSE      PRDSS.R2221.FASTCOPY.EXAMPLES(COPY2) - 01. Line 00000000 Col 001 080
 Command ===>                                              Scroll ===> CSR
 ******************************** Top of Data ********************************
 //@SSCOPY2 JOB (SST),'COPY',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*----------------------------------------------------------------*
 //*  PURPOSE:  COPY MEMBER(-2)
 //*----------------------------------------------------------------*
 //FASTCOPY EXEC PGM=IEBCOPY
 //SYSPRINT DD   SYSOUT=*
 //SYSUT1   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //SYSUT2   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS.NEW
 //SYSIN    DD   *
  COPY       INDD=((SYSUT1,R)),OUTDD=SYSUT2
  SELECT     MEMBER=(TEST01(-2))
 ****************************** Bottom of Data *******************************
```

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FASTCOPY – COPY2 – Results

- SYSPRINT report after executing COPY

```
   Display  Filter  View  Print  Options  Search  Help
 -----------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSCOPY2 J0414952  DSID   102 LINE 0      COLUMNS 02- 81
 COMMAND INPUT ===>                                           SCROLL ===> CSR
 ******************************** TOP OF DATA ********************************
 PDSMAN       r7.70                               FASTCOPY FACILITY       28
 ** PDSMFCPD ** DV27
 FCO100I PDSMAN FASTCOPY PROCESSING ACTIVE     07/28/2015   06:16:01  JOBNAME @SS
 FCO105I    COPY      INDD=((SYSUT1,R)),OUTDD=SYSUT2
 FCO105I    SELECT    MEMBER=(TEST01(-2))
 FCO110I COPYING TO   PDS    OUTDD=SYSUT2    VOL=AMD001 DSN=PRDSS.R2221.MEMBER.VERS
 FCO111I         FROM PDS    INDD=SYSUT1     VOL=AMD006 DSN=PRDSS.R2221.MEMBER.VERS
 FCO141M TEST01(-2)            COPIED
 FCO164U INPUT   MBRS      5 TOTAL      1 COPIED       4 NOT COPIED
 FCO165U OUTPUT MBRS      1 TOTAL      1 ADDED         0 REPLACED
 FCO200U EXCPS           6 TOTAL      4 INPUT         2 OUTPUT
 FCO170U DIR BLKS      100 TOTAL      1 USED         99 UNUSED
 FCO180U TRACKS        150 TOTAL      3 USED        147 UNUSED
 FCO190U EXTENTS         1 TOTAL      1 USED          0 UNUSED
 FCO210U STORAGE     1102K ALLOC  1102K USED
 FCO220U 00.00.00.04 SECS ELAPSED  00.00.00.00 TCB CPU  00.00.00.00 SRB CPU
 FCO230I PDSMAN FASTCOPY PROCESSING COMPLETE   07/28/2015   06:16:01  CC=00
 ******************************** BOTTOM OF DATA ********************************
```

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FASTCOPY – COPY2 – SYSUT1

- SYSUT1 contained the below members

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                                SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename      VV.MM  Created      Changed        Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01     (-1)        01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01     (-2)        01.01  15/07/28  15/07/28 06:06       1  R2221
           TEST01     (-3)        01.01  15/07/28  15/07/28 06:05       1  R2221
           TEST01     (-4)        01.00  15/07/28  15/07/28 06:05       1  R2221
**************************** Bottom of Data ****************************
```

Complete your session evaluations online at www.SHARE.org/Orlando-Eval

FASTCOPY – COPY2 – SYSUT2

- SYSUT2 was originally empty, but now contains TEST01 (-2)

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS.NEW (AMD001) ------------------- Row 1 of 1
COMMAND ===>                                                  SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name        Rename     VV.MM  Created     Changed      Size  Ident
           TEST01      (-2)       01.01  15/07/28  15/07/28 06:06    1  R2221
***************************** Bottom of Data *****************************
```

Complete your session evaluations online at www.SHARE.org/Orlando-Eval

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FASTCOPY – COPY3 (📎)

- Copy the members (-1, -2, etc.)

```
   Menu   Utilities   Compilers   Help
 ------------------------------------------------------------------------
 BROWSE      PRDSS.R2221.FASTCOPY.EXAMPLES(COPY3) - 01. Line 00000000 Col 001 080
 Command ===>                                                  Scroll ===> CSR
 ******************************* Top of Data ********************************
 //@SSCOPY3 JOB (SST),'COPY',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*----------------------------------------------------------------*
 //*  PURPOSE:  COPY MEMBER(-1, -2, ETC.)
 //*----------------------------------------------------------------*
 //FASTCOPY EXEC PGM=IEBCOPY
 //SYSPRINT DD   SYSOUT=*
 //SYSUT1   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //SYSUT2   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS.NEW
 //SYSIN    DD   *
 COPY       INDD=((SYSUT1,R)),OUTDD=SYSUT2
 SELECT     MEMBER=(TEST01(-*))
 ****************************** Bottom of Data *******************************
```

FASTCOPY – COPY3 – Results

- SYSPRINT report after executing COPY

```
   Display  Filter  View  Print  Options  Search  Help
 -----------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSCOPY3 J0414953  DSID   102 LINE 0      COLUMNS 02- 81
 COMMAND INPUT ===>                                          SCROLL ===> CSR
 ****************************** TOP OF DATA ******************************
 PDSMAN      r7.70                              FASTCOPY FACILITY      28
 ** PDSMFCPD ** DV27
 FCO100I PDSMAN FASTCOPY PROCESSING ACTIVE    07/28/2015   06:18:08  JOBNAME @SS
 FCO105I   COPY      INDD=((SYSUT1,R)),OUTDD=SYSUT2
 FCO105I   SELECT    MEMBER=(TEST01(-*))
 FCO110I COPYING TO   PDS   OUTDD=SYSUT2    VOL=AMD001 DSN=PRDSS.R2221.MEMBER.VERS
 FCO111I          FROM PDS   INDD=SYSUT1    VOL=AMD006 DSN=PRDSS.R2221.MEMBER.VERS
 FCO141M TEST01(-1)          COPIED
 FCO141M TEST01(-2)          COPIED
 FCO141M TEST01(-3)          COPIED
 FCO141M TEST01(-4)          COPIED
 FCO164U INPUT  MBRS     5 TOTAL      4 COPIED       1 NOT COPIED
 FCO165U OUTPUT MBRS     4 TOTAL      4 ADDED        0 REPLACED
 FCO200U EXCPS           6 TOTAL      4 INPUT        2 OUTPUT
 FCO170U DIR BLKS      100 TOTAL      1 USED        99 UNUSED
 FCO180U TRACKS        150 TOTAL      3 USED       147 UNUSED
 FCO190U EXTENTS         1 TOTAL      1 USED         0 UNUSED
 FCO210U STORAGE      1102K ALLOC  1102K USED
 FCO220U 00.00.00.02 SECS ELAPSED  00.00.00.00 TCB CPU  00.00.00.00 SRB CPU
```

FASTCOPY – COPY3 – SYSUT1

- SYSUT1 contained the below members

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) -------------------- Row 1 of 5
COMMAND ===>                                                SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name      Rename      VV.MM  Created      Changed       Size  Ident
           TEST01                01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01    (-1)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01    (-2)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01    (-3)        01.01  15/07/28  15/07/28 06:05      1  R2221
           TEST01    (-4)        01.00  15/07/28  15/07/28 06:05      1  R2221
**************************** Bottom of Data ****************************
```

FASTCOPY – COPY3 – SYSUT2

- SYSUT2 was originally empty, but now contains TEST01 (-1, -2, etc.)

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS.NEW (AMD001) ------------------ Row 1 of 4
COMMAND ===>                                                SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename      VV.MM  Created     Changed         Size  Ident
           TEST01     (-1)        01.01  15/07/28  15/07/28 06:06      1   R2221
           TEST01     (-2)        01.01  15/07/28  15/07/28 06:06      1   R2221
           TEST01     (-3)        01.01  15/07/28  15/07/28 06:05      1   R2221
           TEST01     (-4)        01.00  15/07/28  15/07/28 06:05      1   R2221
***************************** Bottom of Data ******************************
```

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FASTCOPY – COPY4 (📎)

- Copy the members (0, -1, -2, etc.)

```
   Menu   Utilities   Compilers   Help
 ------------------------------------------------------------------------
 BROWSE     PRDSS.R2221.FASTCOPY.EXAMPLES(COPY4) - 01. Line 00000000 Col 001 080
 Command ===>                                              Scroll ===> CSR
 ******************************** Top of Data ********************************
 //@SSCOPY3 JOB (SST),'COPY',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*------------------------------------------------------------------*
 //*  PURPOSE:  COPY MEMBER(0, -1, -2, ETC.)
 //*------------------------------------------------------------------*
 //FASTCOPY EXEC PGM=IEBCOPY
 //SYSPRINT DD   SYSOUT=*
 //SYSUT1   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //SYSUT2   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS.NEW
 //SYSIN    DD   *
   COPY       INDD=((SYSUT1,R)),OUTDD=SYSUT2
   SELECT     MEMBER=(TEST01(*))
 ****************************** Bottom of Data *******************************
```

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FASTCOPY – COPY4 – Results

- SYSPRINT report after executing COPY

```
    Display   Filter   View   Print   Options   Search   Help
 ------------------------------------------------------------------------
  SDSF OUTPUT DISPLAY @SSCOPY4 J0414954   DSID   102 LINE 0      COLUMNS 02- 81
  COMMAND INPUT ===>                                            SCROLL ===> CSR
 ******************************** TOP OF DATA ********************************
 PDSMAN       r7.70                              FASTCOPY FACILITY       28
 ** PDSMFCPD ** DV27
 FCO100I PDSMAN FASTCOPY PROCESSING ACTIVE      07/28/2015   06:20:37  JOBNAME @SS
 FCO105I   COPY      INDD=((SYSUT1,R)),OUTDD=SYSUT2
 FCO105I   SELECT    MEMBER=(TEST01(*))
 FCO110I COPYING TO    PDS    OUTDD=SYSUT2    VOL=AMD001 DSN=PRDSS.R2221.MEMBER.VERS
 FCO111I         FROM  PDS    INDD=SYSUT1     VOL=AMD006 DSN=PRDSS.R2221.MEMBER.VERS
 FCO141M TEST01                COPIED
 FCO141M TEST01(-1)            COPIED
 FCO141M TEST01(-2)            COPIED
 FCO141M TEST01(-3)            COPIED
 FCO141M TEST01(-4)            COPIED
 FCO164U INPUT  MBRS      5 TOTAL       5 COPIED       0 NOT COPIED
 FCO165U OUTPUT MBRS      5 TOTAL       5 ADDED        0 REPLACED
 FCO200U EXCPS            6 TOTAL       4 INPUT        2 OUTPUT
 FCO170U DIR BLKS       100 TOTAL       1 USED        99 UNUSED
 FCO180U TRACKS         150 TOTAL       3 USED       147 UNUSED
 FCO190U EXTENTS          1 TOTAL       1 USED         0 UNUSED
 FCO210U STORAGE      1102K ALLOC   1102K USED
```

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FASTCOPY – COPY4 – SYSUT1

- SYSUT1 contained the below members

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                            SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command   Name       Rename      VV.MM  Created      Changed        Size  Ident
          TEST01                 01.01  15/07/28  15/07/28 06:06       1  R2221
          TEST01     (-1)        01.01  15/07/28  15/07/28 06:06       1  R2221
          TEST01     (-2)        01.01  15/07/28  15/07/28 06:06       1  R2221
          TEST01     (-3)        01.01  15/07/28  15/07/28 06:05       1  R2221
          TEST01     (-4)        01.00  15/07/28  15/07/28 06:05       1  R2221
**************************** Bottom of Data *****************************
```

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FASTCOPY – COPY4 – SYSUT2

- SYSUT2 was originally empty, but now contains TEST01 (0, -1, etc.)

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS.NEW (AMD001) ------------------- Row 1 of 5
COMMAND ===>                                                  SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename     VV.MM  Created      Changed        Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01     (-1)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01     (-2)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01     (-3)        01.01  15/07/28  15/07/28 06:05      1  R2221
           TEST01     (-4)        01.00  15/07/28  15/07/28 06:05      1  R2221
***************************** Bottom of Data *****************************
```

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FASTCOPY – DELETE (📎)

- Delete the TEST01 (-2)

```
   Menu   Utilities  Compilers  Help
 -------------------------------------------------------------------------
 BROWSE      PRDSS.R2221.FASTCOPY.EXAMPLES(DELETE) - 01 Line 00000000 Col 001 080
 Command ===>                                              Scroll ===> CSR
 ******************************* Top of Data ********************************
 //@SSDELET JOB (SST),'RENAME',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*---------------------------------------------------------------*
 //*  PURPOSE:  DELETE MEMBER(-2)
 //*---------------------------------------------------------------*
 //FASTCOPY EXEC PGM=IEBCOPY
 //SYSPRINT DD   SYSOUT=*
 //SYSUT1   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //SYSIN    DD   *
   EDITDIR   OUTDD=SYSUT1
   DELETE    MEMBER=(TEST01(-2))
 ****************************** Bottom of Data ******************************
```

FASTCOPY – DELETE – Results

- SYSPRINT report after executing DELETE

```
   Display  Filter  View  Print  Options  Search  Help
 ----------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSDELET J0414959  DSID   102 LINE 0      COLUMNS 02- 81
 COMMAND INPUT ===>                                          SCROLL ===> CSR
 ****************************** TOP OF DATA ******************************
 PDSMAN       r7.70                              FASTCOPY FACILITY        28
 ** PDSMFCPD ** DV27
 FCO100I PDSMAN FASTCOPY PROCESSING ACTIVE     07/28/2015   06:27:56  JOBNAME @SS
 FCO105I   EDITDIR   OUTDD=SYSUT1
 FCO105I   DELETE    MEMBER=(TEST01(-2))
 FCO110I EDITDIR       PDS    OUTDD=SYSUT1    VOL=AMD006 DSN=PRDSS.R2221.MEMBER.VERS
 FCO772I TEST01(-2)     HAS BEEN DELETED
 FCO780I EDITDIR PROCESSING COMPLETE
 FCO220U 00.00.00.01 SECS ELAPSED  00.00.00.00 TCB CPU  00.00.00.00 SRB CPU
 FCO230I PDSMAN FASTCOPY PROCESSING COMPLETE   07/28/2015   06:27:56  CC=00
 ****************************** BOTTOM OF DATA ******************************
```

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- SYSUT1 <u>before</u> executing the DELETE

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                              SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command     Name       Rename      VV.MM  Created      Changed        Size  Ident
            TEST01                 01.01  15/07/28  15/07/28 06:06     1   R2221
            TEST01     (-1)        01.01  15/07/28  15/07/28 06:06     1   R2221
            TEST01     (-2)        01.01  15/07/28  15/07/28 06:06     1   R2221
            TEST01     (-3)        01.01  15/07/28  15/07/28 06:05     1   R2221
            TEST01     (-4)        01.00  15/07/28  15/07/28 06:05     1   R2221
***************************** Bottom of Data ******************************
```

FASTCOPY – DELETE – SYSUT1

- SYSUT1 <u>after</u> executing the DELETE

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 4
COMMAND ===>                                             SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name      Rename     VV.MM  Created      Changed        Size  Ident
           TEST01               01.01  15/07/28  15/07/28 06:06     1   R2221
           TEST01     (-1)      01.01  15/07/28  15/07/28 06:06     1   R2221
           TEST01     (-3)      01.01  15/07/28  15/07/28 06:05     1   R2221
           TEST01     (-4)      01.00  15/07/28  15/07/28 06:05     1   R2221
****************************** Bottom of Data ******************************
```

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FASTCOPY – RENAME (📎)

- Rename the TEST01 (-1) to TEST99

```
   Menu   Utilities   Compilers   Help
 -----------------------------------------------------------------------
 BROWSE      PRDSS.R2221.FASTCOPY.EXAMPLES(RENAME) - 01 Line 00000000 Col 001 080
 Command ===>                                               Scroll ===> CSR
 ******************************* Top of Data ********************************
 //@SSRENAM JOB (SST),'RENAME',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*-------------------------------------------------------------------*
 //*  PURPOSE:   RENAME TEST01 (-1) TO TEST99
 //*-------------------------------------------------------------------*
 //FASTCOPY EXEC PGM=IEBCOPY
 //SYSPRINT DD   SYSOUT=*
 //SYSUT1   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //SYSIN    DD   *
   EDITDIR   OUTDD=SYSUT1
   RENAME    MEMBER=(TEST01(-1),TEST99)
 ****************************** Bottom of Data ******************************
```

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FASTCOPY – RENAME – Results

- SYSPRINT report after executing RENAME

```
   Display  Filter  View  Print  Options  Search  Help
 -----------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSRENAM J0414966  DSID   102 LINE 0      COLUMNS 02- 81
 COMMAND INPUT ===>                                           SCROLL ===> CSR
 ******************************** TOP OF DATA ********************************
 PDSMAN       r7.70                              FASTCOPY FACILITY      28
 ** PDSMFCPD ** DV27
 FCO100I PDSMAN FASTCOPY PROCESSING ACTIVE      07/28/2015   06:33:03  JOBNAME @SS
 FCO105I    EDITDIR   OUTDD=SYSUT1
 FCO105I    RENAME    MEMBER=(TEST01(-1),TEST99)
 FCO110I EDITDIR      PDS    OUTDD=SYSUT1    VOL=AMD006 DSN=PRDSS.R2221.MEMBER.VERS
 FCO773I TEST01(-1)      HAS BEEN RENAMED TO TEST99
 FCO780I EDITDIR PROCESSING COMPLETE
 FCO220U 00.00.00.01 SECS ELAPSED  00.00.00.00 TCB CPU  00.00.00.00 SRB CPU
 FCO230I PDSMAN FASTCOPY PROCESSING COMPLETE   07/28/2015   06:33:03  CC=00
 ******************************* BOTTOM OF DATA ******************************
```

FASTCOPY – RENAME – SYSUT1

- SYSUT1 <u>before</u> executing the RENAME

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                                SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename     VV.MM  Created     Changed        Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06     1  R2221
           TEST01     (-1)        01.01  15/07/28  15/07/28 06:06     1  R2221
           TEST01     (-2)        01.01  15/07/28  15/07/28 06:06     1  R2221
           TEST01     (-3)        01.01  15/07/28  15/07/28 06:05     1  R2221
           TEST01     (-4)        01.00  15/07/28  15/07/28 06:05     1  R2221
***************************** Bottom of Data ******************************
```

FASTCOPY – RENAME – SYSUT1

- SYSUT1 <u>after</u> executing the RENAME

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) ---------------------- Row 1 of 5
COMMAND ===>                                              SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command      Name        Rename      VV.MM  Created    Changed      Size  Ident
             TEST01                  01.01  15/07/28  15/07/28 06:06    1  R2221
             TEST01      (-2)        01.01  15/07/28  15/07/28 06:06    1  R2221
             TEST01      (-3)        01.01  15/07/28  15/07/28 06:05    1  R2221
             TEST01      (-4)        01.00  15/07/28  15/07/28 06:05    1  R2221
             TEST99                  01.01  15/07/28  15/07/28 06:06    1  R2221
***************************** Bottom of Data *****************************
```

Notes

- To learn more about the features and functions of FASTCOPY, please view the PDSMAN – FASTCOPY slide deck

PDSM32

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Overview

- The PDSM32 utility is used to list, delete and rename multiple member versions

    - A previous member version can be recovered by renaming

    - Can process old member versions and members with non-printable (hexadecimal) names

    - Can perform these functions for normal (non-version) members

    - Can list a directory partially or completely, highlighting duplicate entries and members out of sequence

- The next few slides will demonstrate how to use member versions with PDSM32

Complete your session evaluations online at www.SHARE.org/Orlando-Eval

JCL

- Use the following JCL to execute PDSM32:

```
//S1 EXEC PGM=PDSM32[,PARM='control_statement']
//PDSMRPT DD SYSOUT=class
//PDSMPDS DD DISP=SHR,DSN=dataset_name
//SYSIN   DD *                    (optional control statements)
```

JCL – DD Cards

- Description of DD cards

Statement	Description
EXEC	The PARM field can be used to specify control statements
PDSMRPT	Defines the output report dataset, with DCB attributes of RECFM=FBA and LRECL=133
PDSMPDS	Defines the library for which processing is to be performed
SYSIN	Defines optional control statement input

JCL – Control Statements

- Control statements can be specified in the PARM= field of the EXEC statement, as SYSIN input or both

Statement	Description
DIR [member1 member2]	List directory from member1 to member2 in alphabetical sequence, highlighting any errors • Both parameters are optional and are treated as member prefixes • If neither is specified, the entire directory is listed • If only member1 is specified, the entire directory is listed beginning at the specified member
DIRV [member1 member2]	List directory from member1 to member2 in alphabetical sequence, including old member versions and highlighting any errors • Both parameters are optional and are treated as member prefixes • If neither is specified, the entire directory is listed • If only member1 is specified, the entire directory is listed beginning at the specified member

JCL – Control Statements

- Control statements can be specified in the PARM= field of the EXEC statement, as SYSIN input or both

Statement	Description
DELETE member1 [ALIAS PURGE PREVONLY CLEANUP]	Delete the indicated member. Additional keywords control optional deletion of this member's old versions (minus versions) and aliases ALIAS — Delete the member and all its aliases PURGE — Delete the member and its old versions PREVONLY — Delete only the member's old versions; do not delete the base member CLEANUP — Force PURGE or PREVONLY to attempt delete of all possible 99 old versions • This option is intended for cases where a version may be missing (-1 and -3 exist, but -2 does not)
RENAME member1 member2	Rename member1 to new name member2
PURGE PREVONLY	PURGE PREVONLY deletes all old versions, for all members, base (current) members will not be deleted

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JCL – Member Name

- The member1 and member2 parameters can be specified as follows:

Value	Description
member	An alphabetic member name such as TEST01
X'member'	A hexadecimal member name such as X'E3C5E2E3F0F1'
member(-nn)	An old member version such as TEST01 (-2)

PDSM32 – DIR (📎)

- Validate and list directory members

```
   Menu   Utilities   Compilers   Help
 -------------------------------------------------------------------------
 BROWSE     PRDSS.R2221.PDSM32.EXAMPLES(PDSM32A) - 01. Line 00000000 Col 001 080
 Command ===>                                                Scroll ===> CSR
 ******************************** Top of Data ********************************
 //@SSPDS32 JOB (SST),'PDSM32',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*---------------------------------------------------------------*
 //*  PURPOSE:  LIST DIRECTORY FOR ALL MEMBERS (0, -1, -2, ETC.)
 //*---------------------------------------------------------------*
 //PDSM32    EXEC PGM=PDSM32
 //PDSMPDS   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //PDSMRPT   DD   SYSOUT=*
 //SYSIN     DD   *
   DIR
 ****************************** Bottom of Data ******************************
```

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PDSM32 – DIR – Results

- PDSMRPT report after executing DIR

```
   Display  Filter  View  Print  Options  Search  Help
   ---------------------------------------------------------------------
   SDSF OUTPUT DISPLAY @SSPDS32 J0414970  DSID   102 LINE 0      COLUMNS 02- 81
   COMMAND INPUT ===>                                           SCROLL ===> CSR
   ****************************** TOP OF DATA ******************************
   PDSMAN        r7.70                        PDS MAINTENANCE - 2
   ** PDSM32 **   DV27                        PRDSS.R2221.MEMBER.VERSION

   Member                          Update Date/Time   Vers.   Job Name S   Referen

   FUNC=  DIR

   TEST01                          07/28/2015  06:06  01.01   R2221        -- None
   TEST01(-1)     X'FEBE0BAFDB700001'  07/28/2015  06:06  01.01   R2221    -- None
   TEST01(-2)     X'FEBE0BAFDB700002'  07/28/2015  06:06  01.01   R2221    -- None
   TEST01(-3)     X'FEBE0BAFDB700003'  07/28/2015  06:05  01.01   R2221    -- None
   TEST01(-4)     X'FEBE0BAFDB700004'  07/28/2015  06:05  01.00   R2221    -- None
   ****************************** BOTTOM OF DATA **************************
```

PDSM32 – DIRV (📎)

- Validate and list directory members, including old members

```
   Menu   Utilities   Compilers   Help
 -------------------------------------------------------------------------
 BROWSE      PRDSS.R2221.PDSM32.EXAMPLES(PDSM32B) - 01. Line 00000000 Col 001 080
 Command ===>                                                Scroll ===> CSR
 ******************************** Top of Data ********************************
 //@SSPDS32 JOB (SST),'PDSM32',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*-------------------------------------------------------------------*
 //*  PURPOSE:  LIST DIRECTORY FOR ALL MEMBERS, INCLUDING OLD MEMBERS
 //*-------------------------------------------------------------------*
 //PDSM32    EXEC PGM=PDSM32
 //PDSMPDS   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //PDSMRPT   DD   SYSOUT=*
 //SYSIN     DD   *
  DIRV
 ****************************** Bottom of Data ******************************
```

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PDSM32 – DIRV – Results

- PDSMRPT report after executing DIRV

```
    Display  Filter  View  Print  Options  Search  Help
   -----------------------------------------------------------------------
   SDSF OUTPUT DISPLAY @SSPDS32 J0414971  DSID   102 LINE 0      COLUMNS 02- 81
   COMMAND INPUT ===>                                         SCROLL ===> CSR
  ****************************** TOP OF DATA ******************************
   PDSMAN       r7.70                              PDS MAINTENANCE - 2
   ** PDSM32 **    DV27                            PRDSS.R2221.MEMBER.VERSION


   Member                           Update Date/Time   Vers.  Job Name S  Referen

   FUNC=  DIRV

   TEST01                           07/28/2015  06:06  01.01  R2221      -- None
   TEST01(-1)                       07/28/2015  06:06  01.01  R2221      -- None
   TEST01(-2)                       07/28/2015  06:06  01.01  R2221      -- None
   TEST01(-3)                       07/28/2015  06:05  01.01  R2221      -- None
   TEST01(-4)                       07/28/2015  06:05  01.00  R2221      -- None
  ****************************** BOTTOM OF DATA **************************
```

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PDSM32 – DELETE (📎)

- Delete member (0)

```
   Menu   Utilities   Compilers   Help
 ------------------------------------------------------------------
 BROWSE      PRDSS.R2221.PDSM32.EXAMPLES(PDSM32C) - 01. Line 00000000 Col 001 080
 Command ===>                                              Scroll ===> CSR
 ******************************** Top of Data ********************************
 //@SSPDS32 JOB (SST),'PDSM32',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*------------------------------------------------------------------*
 //*  PURPOSE:  DELETE MEMBER (0)
 //*------------------------------------------------------------------*
 //PDSM32    EXEC PGM=PDSM32
 //PDSMPDS   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //PDSMRPT   DD   SYSOUT=*
 //SYSIN     DD   *
 DELETE TEST01
 ****************************** Bottom of Data ******************************
```

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PDSM32 – DELETE – Results

- PDSMRPT report after executing DELETE

```
   Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSPDS32 J0414972  DSID   102 LINE 0       COLUMNS 02- 81
 COMMAND INPUT ===>                                       SCROLL ===> CSR
 ******************************* TOP OF DATA ********************************
 PDSMAN        r7.70                      PDS MAINTENANCE - 2
 ** PDSM32 **   DV27                      PRDSS.R2221.MEMBER.VERSION

 Member                              Update Date/Time  Vers.  Job Name S  Referen

 FUNC=   DELETE TEST01

 MEMBER DELETED
 ******************************* BOTTOM OF DATA *****************************
```

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PDSM32 – DELETE – Before

- <u>Before</u> executing DELETE

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) ---------------------- Row 1 of 5
COMMAND ===>                                            SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename      VV.MM  Created      Changed      Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06    1   R2221
           TEST01     (-1)        01.01  15/07/28  15/07/28 06:06    1   R2221
           TEST01     (-2)        01.01  15/07/28  15/07/28 06:06    1   R2221
           TEST01     (-3)        01.01  15/07/28  15/07/28 06:05    1   R2221
           TEST01     (-4)        01.00  15/07/28  15/07/28 06:05    1   R2221
****************************** Bottom of Data ******************************
```

- <u>After</u> executing DELETE

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 4
COMMAND ===>                                               SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command   Name        Rename     VV.MM  Created       Changed       Size  Ident
          TEST01                 01.01  15/07/28  15/07/28 06:06       1  R2221
          TEST01      (-1)       01.01  15/07/28  15/07/28 06:06       1  R2221
          TEST01      (-2)       01.01  15/07/28  15/07/28 06:05       1  R2221
          TEST01      (-3)       01.00  15/07/28  15/07/28 06:05       1  R2221
****************************** Bottom of Data ******************************
```

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PDSM32 – DELETE ALIAS (📎)

- Delete the member (0) and the alias

```
   Menu   Utilities  Compilers  Help
 ---------------------------------------------------------------------
 BROWSE     PRDSS.R2221.PDSM32.EXAMPLES(PDSM32D) - 01. Line 00000000 Col 001 080
 Command ===>                                            Scroll ===> CSR
 ****************************** Top of Data ******************************
 //@SSPDS32 JOB (SST),'PDSM32',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*--------------------------------------------------------------*
 //*  PURPOSE:  DELETE MEMBER (0) AND ALIAS
 //*--------------------------------------------------------------*
 //PDSM32    EXEC PGM=PDSM32
 //PDSMPDS   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //PDSMRPT   DD   SYSOUT=*
 //SYSIN     DD   *
 DELETE TEST01 ALIAS
 ****************************** Bottom of Data ******************************
```

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PDSM32 – DELETE ALIAS – Results

- PDSMRPT report after executing DELETE with the ALIAS parameter

```
  Display  Filter  View  Print  Options  Search  Help
 -----------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSPDS32 J0414975  DSID   102 LINE 0      COLUMNS 02- 81
 COMMAND INPUT ===>                                        SCROLL ===> CSR
 ****************************** TOP OF DATA ******************************
 PDSMAN        r7.70                          PDS MAINTENANCE - 2
 ** PDSM32 **   DV27                          PRDSS.R2221.MEMBER.VERSION


 Member                              Update Date/Time  Vers.  Job Name S  Referen

 FUNC=  DELETE TEST01 ALIAS

 ALIAS  DELETED  : TEST99
 MEMBER DELETED  : TEST01
 ****************************** BOTTOM OF DATA ***************************
```

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PDSM32 – DELETE ALIAS – Before

- Before executing DELETE with the ALIAS parameter

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 6
COMMAND ===>                                            SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename     VV.MM  Created      Changed       Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06     1  R2221
           TEST01      (-1)       01.01  15/07/28  15/07/28 06:06     1  R2221
           TEST01      (-2)       01.01  15/07/28  15/07/28 06:05     1  R2221
           TEST01      (-3)       01.00  15/07/28  15/07/28 06:05     1  R2221
           TEST01      (-4)       01.00  15/07/28  15/07/28 06:05     1  R2221
           TEST99                 Alias
****************************** Bottom of Data ********************************
```

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PDSM32 – DELETE ALIAS – After

- After executing DELETE with the ALIAS parameter

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 4
COMMAND ===>                                           SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename     VV.MM  Created      Changed       Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06     1  R2221
           TEST01      (-1)       01.01  15/07/28  15/07/28 06:05     1  R2221
           TEST01      (-2)       01.00  15/07/28  15/07/28 06:05     1  R2221
           TEST01      (-3)       01.00  15/07/28  15/07/28 06:05     1  R2221
****************************** Bottom of Data ******************************
```

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PDSM32 – DELETE PREVONLY (📎)

- Only delete the previous versions of a member (-1, -2, etc.)

```
   Menu   Utilities   Compilers   Help
 ---------------------------------------------------------------------
 BROWSE      PRDSS.R2221.PDSM32.EXAMPLES(PDSM32E) - 01. Line 00000000 Col 001 080
 Command ===>                                              Scroll ===> CSR
 ****************************** Top of Data ******************************
 //@SSPDS32 JOB (SST),'PDSM32',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*------------------------------------------------------------------*
 //*  PURPOSE:  DELETE ALL MINUS VERSIONS OF A MEMBER (-1, -2, ETC.)
 //*------------------------------------------------------------------*
 //PDSM32    EXEC PGM=PDSM32
 //PDSMPDS   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //PDSMRPT   DD   SYSOUT=*
 //SYSIN     DD   *
 DELETE TEST01 PREVONLY
 ****************************** Bottom of Data ******************************
```

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PDSM32 – DELETE PREVONLY – Results

- PDSMRPT report after executing DELETE with the PREVONLY parameter

```
   Display  Filter  View  Print  Options  Search  Help
  ------------------------------------------------------------------------
  SDSF OUTPUT DISPLAY @SSPDS32 J0414976  DSID   102 LINE 0      COLUMNS 02- 81
  COMMAND INPUT ===>                                     SCROLL ===> CSR
  ****************************** TOP OF DATA ******************************
  PDSMAN        r7.70                        PDS MAINTENANCE - 2
  ** PDSM32 **   DV27                        PRDSS.R2221.MEMBER.VERSION

  Member                            Update Date/Time  Vers.  Job Name S  Referen

  FUNC=  DELETE TEST01 PREVONLY

  MEMBER DELETED   : TEST01(-1)
  MEMBER DELETED   : TEST01(-2)
  MEMBER DELETED   : TEST01(-3)
  MEMBER DELETED   : TEST01(-4)
  ****************************** BOTTOM OF DATA ******************************
```

PDSM32 – DELETE PREVONLY – Before

- Before executing DELETE with the PREVONLY parameter

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                            SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command   Name      Rename      VV.MM  Created      Changed       Size  Ident
          TEST01                01.01  15/07/28  15/07/28 06:06     1   R2221
          TEST01    (-1)        01.01  15/07/28  15/07/28 06:06     1   R2221
          TEST01    (-2)        01.01  15/07/28  15/07/28 06:06     1   R2221
          TEST01    (-3)        01.01  15/07/28  15/07/28 06:05     1   R2221
          TEST01    (-4)        01.00  15/07/28  15/07/28 06:05     1   R2221
**************************** Bottom of Data *****************************
```

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PDSM32 – DELETE PREVONLY – After

- After executing DELETE with the PREVONLY parameter

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 1
COMMAND ===>                                                    SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename     VV.MM  Created     Changed        Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06     1  R2221
***************************** Bottom of Data *****************************
```

PDSM32 – DELETE PURGE (📎)

- Delete all versions of the member (0, -1, -2, etc.)

```
   Menu   Utilities   Compilers   Help
 ------------------------------------------------------------------------
 BROWSE     PRDSS.R2221.PDSM32.EXAMPLES(PDSM32F) - 01. Line 00000000 Col 001 080
 Command ===>                                                   Scroll ===> CSR
 ****************************** Top of Data ******************************
 //@SSPDS32 JOB (SST),'PDSM32',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
 //*----------------------------------------------------------------*
 //*  PURPOSE:  DELETE ALL VERSIONS OF A MEMBER (0, -1, -2, ETC.)
 //*----------------------------------------------------------------*
 //PDSM32    EXEC PGM=PDSM32
 //PDSMPDS   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
 //PDSMRPT   DD   SYSOUT=*
 //SYSIN     DD   *
   DELETE TEST01 PURGE
 ****************************** Bottom of Data ******************************
```

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PDSM32 – DELETE PURGE – Results

- PDSMRPT report after executing DELETE with the PURGE parameter

```
   Display  Filter  View  Print  Options  Search  Help
 ------------------------------------------------------------------------
  SDSF OUTPUT DISPLAY @SSPDS32 J0414977  DSID   102 LINE 0      COLUMNS 02- 81
  COMMAND INPUT ===>                                           SCROLL ===> CSR
 ******************************* TOP OF DATA ********************************
 PDSMAN        r7.70                         PDS MAINTENANCE - 2
 ** PDSM32 **   DV27                         PRDSS.R2221.MEMBER.VERSION

 Member                              Update Date/Time  Vers.  Job Name S  Referen

 FUNC=  DELETE TEST01 PURGE

 MEMBER DELETED   : TEST01(-1)
 MEMBER DELETED   : TEST01(-2)
 MEMBER DELETED   : TEST01(-3)
 MEMBER DELETED   : TEST01(-4)
 MEMBER DELETED   : TEST01
 ****************************** BOTTOM OF DATA ******************************
```

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PDSM32 – DELETE PURGE – Before

- Before executing DELETE with the PURGE parameter

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) ---------------------- Row 1 of 5
COMMAND ===>                                                  SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename      VV.MM  Created      Changed       Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01     (-1)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01     (-2)        01.01  15/07/28  15/07/28 06:06      1  R2221
           TEST01     (-3)        01.01  15/07/28  15/07/28 06:05      1  R2221
           TEST01     (-4)        01.00  15/07/28  15/07/28 06:05      1  R2221
**************************** Bottom of Data ****************************
```

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PDSM32 – DELETE PURGE – After

- After executing DELETE with the PURGE parameter

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) ------------------ Empty dataset
COMMAND ===>                                                    SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command   Name        Rename      VV.MM  Created       Changed       Size  Ident
****************************** Bottom of Data ******************************
```

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PDSM32 – Rename (📎)

- Rename TEST01 (-1) member to TEST02

```
   Menu   Utilities   Compilers   Help
 ------------------------------------------------------------------------
 BROWSE     PRDSS.R2221.PDSM32.EXAMPLES(PDSM32G) - 01. Line 00000000 Col 001 080
 Command ===>                                              Scroll ===> CSR
******************************** Top of Data *********************************
//@SSPDS32 JOB (SST),'PDSM32',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
//*--------------------------------------------------------------------*
//*  PURPOSE:  RENAME TEST01(-1) TO TEST02
//*--------------------------------------------------------------------*
//PDSM32    EXEC PGM=PDSM32
//PDSMPDS   DD   DISP=SHR,DSN=PRDSS.R2221.MEMBER.VERSIONS
//PDSMRPT   DD   SYSOUT=*
//SYSIN     DD   *
 RENAME TEST01(-1) TEST02
****************************** Bottom of Data ********************************
```

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PDSM32 – RENAME – Results

- PDSMRPT report after executing RENAME

```
   Display  Filter  View  Print  Options  Search  Help
 ------------------------------------------------------------------------
 SDSF OUTPUT DISPLAY @SSPDS32 J0414978  DSID   102 LINE 0      COLUMNS 02- 81
 COMMAND INPUT ===>                                       SCROLL ===> CSR
 ******************************** TOP OF DATA ********************************
 PDSMAN        r7.70                      PDS MAINTENANCE - 2
 ** PDSM32 **   DV27                      PRDSS.R2221.MEMBER.VERSION

 Member                              Update Date/Time   Vers.  Job Name S  Referen

 FUNC=  RENAME TEST01(-1) TEST02

 MEMBER RENAMED
 ****************************** BOTTOM OF DATA *******************************
```

PDSM32 – RENAME – Before

- <u>Before</u> executing RENAME

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) ---------------------- Row 1 of 5
COMMAND ===>                                                    SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name       Rename      VV.MM  Created     Changed          Size  Ident
           TEST01                 01.01  15/07/28  15/07/28 06:06        1  R2221
           TEST01     (-1)        01.01  15/07/28  15/07/28 06:06        1  R2221
           TEST01     (-2)        01.01  15/07/28  15/07/28 06:06        1  R2221
           TEST01     (-3)        01.01  15/07/28  15/07/28 06:05        1  R2221
           TEST01     (-4)        01.00  15/07/28  15/07/28 06:05        1  R2221
****************************** Bottom of Data ******************************
```

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PDSM32 – RENAME – After

- <u>After</u> executing RENAME

```
EZYEDIT PRDSS.R2221.MEMBER.VERSIONS (AMD006) --------------------- Row 1 of 5
COMMAND ===>                                              SCROLL ===> CSR
Enter: S=Select M=Move C=Copy D=Delete R=Rename T=Tag X=eXclude F1=Help
Command    Name        Rename      VV.MM  Created     Changed         Size  Ident
           TEST01                  01.01  15/07/28  15/07/28 06:06      1   R2221
           TEST01      (-2)        01.01  15/07/28  15/07/28 06:06      1   R2221
           TEST01      (-3)        01.01  15/07/28  15/07/28 06:05      1   R2221
           TEST01      (-4)        01.00  15/07/28  15/07/28 06:05      1   R2221
           TEST02                  01.01  15/07/28  15/07/28 06:06      1   R2221
****************************** Bottom of Data ******************************
```

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Links

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PDSMAN

Links
PDSMAN – EZYEDIT – Introduction
PDSMAN – EZYEDIT – Selection Panel
PDSMAN – EZYEDIT – Dataset List
PDSMAN – EZYEDIT – Member List
PDSMAN – EZYEDIT – SPACE
PDSMAN – EZYEDIT – TSO Command Shell
PDSMAN – Introduction
PDSMAN – Member Versions
PDSMAN – FASTCOPY
PDSMAN – PDSEASY
PDSMAN – PDSM18
PDSMAN – PDSMURPT

Complete your session evaluations online at www.SHARE.org/Orlando-Eval

Other

Links
ISPF – An Experienced User Shares His Secrets
ISPF – Workstation Agent (WSA)
OPSMVS – OPSLOG Overview
REXX and ISPF – Troubleshooting
SDSF – Beyond the Basics

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Conclusion

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Final Comments

- PDSMAN provides a wide range of solutions to PDS and PDSE issues users face on a daily basis
    - Saves time and increases productivity

- Every PDSMAN/EZYEDIT release introduces new features and commands which are easy to understand, implement and use

- The tutorials and manuals are exceptional
    - Easy to read and understand
    - Suggest downloading the manuals periodically to obtain new updates

Complete your session evaluations online at www.SHARE.org/Orlando-Eval

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Thank You!

- A special thank you to the CA PDSMAN team for their technical input and assistance

- Suggest checking out the CA PDSMAN community web site at:

  CA – Mainframe Community – PDSMAN

 Or

  CA – Mainframe Community

 Select 'CA PDSMAN PDS Library Management' from the 'Products Covered' section located on the left hand side of the web page

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Any questions or comments please contact

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