# SDSF – Beyond the Basics

*Bruce Koss*
*Wells Fargo*

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*4:30 PM - 5:30 PM*
*16604*

*www.SHARE.org*

# Introduction

- Demonstrate how to
    - Configure and personalize SDSF
    - Execute SDSF in batch jobs
    - Code SDSF REXX programs

- Links to SDSF presentations and manuals at end of this document
    - To open a link in a new browser window
        - Hold down the SHIFT key and click on the link

- Acronyms
    - Interactive System Productivity Facility (ISPF)
    - Restructured Extended Executor Language (REXX)
    - System Display and Search Facility (SDSF)

# Agenda

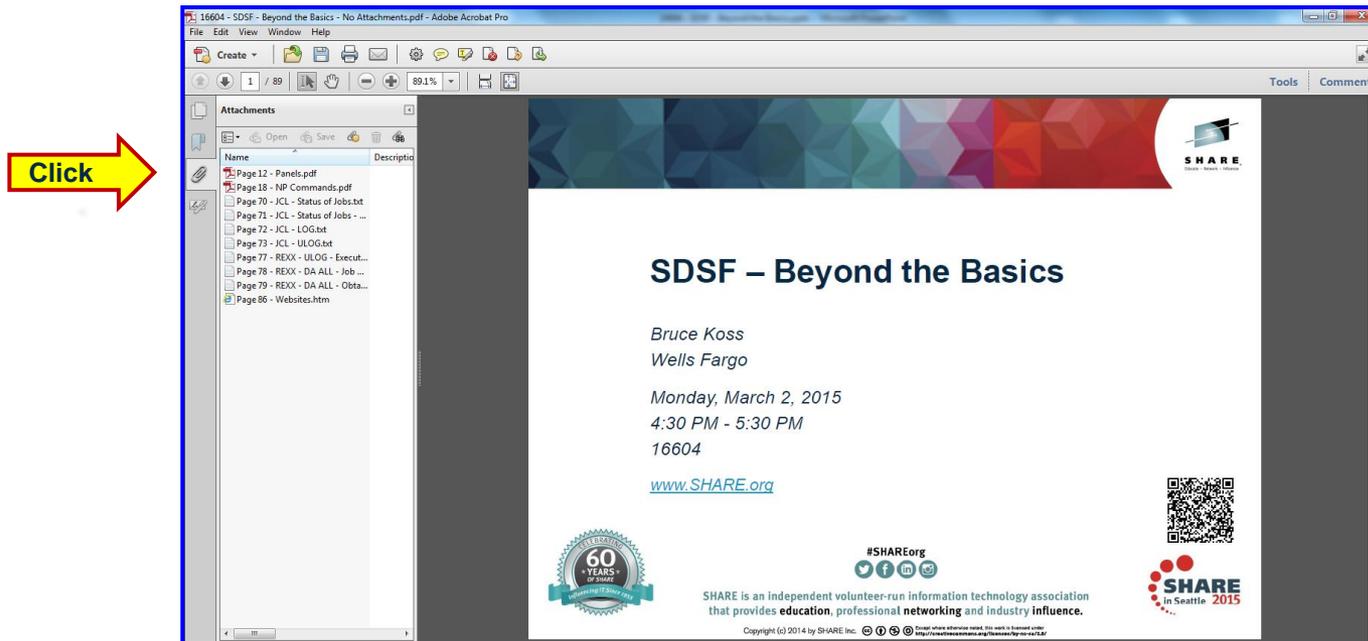| Subject | Topics |
|---------|--------|
| Overview | ISPF vs. TSO, Panels |
| NP Commands | NP Column, NP Commands, NP Example |
| Primary Commands | KEYS, ?, SET ACTION, SET DISPLAY, PREFIX, OWNER, S, SYSNAME, ARRANGE, FILTER, SORT, SEARCH, WHO |
| LOG | OPERLOG vs. SYSLOG, LOG OPERLOG, LOG SYSLOG, SYSID, ACTION, FINDLIM, LOCATE, SET DATE, FILTER, PRINT, /, SET DELEAY, SET CONSOLE, SET CONMOD |
| Batch | Status of Jobs, LOG, ULOG |
| REXX | REXXHELP, COLSHELP, ULOG, DA_ALL |
| Links | Manuals, SHARE, Websites |

# Attachments (📎)

- The following attachments are included in this document:

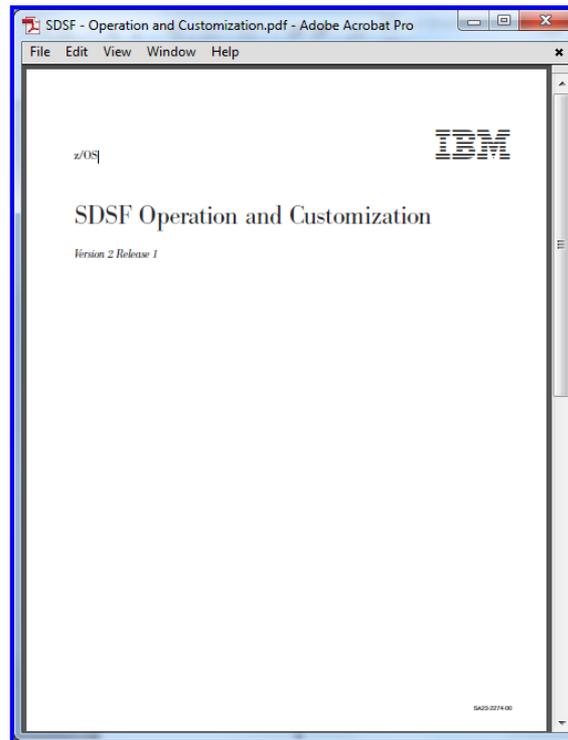| File | Type |
|---|---|
| Page 12 – Panels | PDF |
| Page 18 – NP Commands | PDF |
| Page 70 – JCL – Status of Jobs | TXT |
| Page 71 – JCL – Status of Jobs – JESMSGLG | TXT |
| Page 72 – JCL – LOG | TXT |
| Page 73 – JCL – ULOG | TXT |
| Page 77 – REXX – ULOG – Execute MVS Cmd | TXT |
| Page 78 – REXX – DA  ALL – Job Name and Lpar | TXT |
| Page 79 – REXX – DA  ALL – Obtain STC File | TXT |
| Page 86 – Websites | HTM |

# Attachments (📎)

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



**Click** →

# SDSF – Users Guide?

- SDSF only has one manual, 'Operation and Customization', there is no 'Users Guide'

# Disclaimers

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

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

- SDSF 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 z/OS V2R1

- Security may prevent access to panels or executing commands

- Does <u>not</u> cover all SDSF and SDSF REXX commands

- Does <u>not</u> contain information on the SDSF Action Bar

- Limited information on JES3, mostly JES2

# Overview

# ISPF vs. TSO

- ISPF
  - From the ISPF menu, select SDSF
  - The action bar is displayed at the top of screen
  - Can save customization of environment

- TSO
  - From the TSO READY screen, type in SDSF
    - Or from within ISPF, type in TSO SDSF
  - No action bar at the top of screen
  - Can NOT save customization of environment

# SDSF – ISPF

- From the ISPF menu, select SDSF
  - The action bar is displayed at the top of screen
  - Can save customization of environment

```
   Display  Filter  View  Print  Options  Search  Help
  --------------------------------------------------------------------------
  HQX7780 ----------------  SDSF PRIMARY OPTION MENU  ------------------------
  COMMAND INPUT ===> _____ SCROLL ===> CSR_

  DA     Active users                    INIT   Initiators
  I      Input queue                     PR     Printers
  O      Output queue                    PUN    Punches
  H      Held output queue               RDR    Readers
  ST     Status of jobs                  LINE   Lines
                                         NODE   Nodes
  LOG    System log                      SO     Spool offload
  SR     System requests                 SP     Spool volumes
  MAS    Members in the MAS              NS     Network servers
  JC     Job classes                     NC     Network connections
  SE     Scheduling environments
  RES    WLM resources                   RM     Resource monitor

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```

# SDSF – TSO

- From within ISPF, type in TSO SDSF
  - No action bar at the top of screen
  - Can NOT save customization of environment

```
HQX7780 ----------------- SDSF PRIMARY OPTION MENU -------------------------
COMMAND INPUT ===> _____ SCROLL ===> PAGE

DA     Active users                    INIT   Initiators
I      Input queue                     PR     Printers
O      Output queue                    PUN    Punches
H      Held output queue               RDR    Readers
ST     Status of jobs                  LINE   Lines
                                       NODE   Nodes
LOG    System log                      SO     Spool offload
SR     System requests                 SP     Spool volumes
MAS    Members in the MAS              NS     Network servers
JC     Job classes                     NC     Network connections
SE     Scheduling environments
RES    WLM resources                   RM     Resource monitor
ENC    Enclaves                        CK     Health checker
PS     Processes

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```

# Panels (📎)

| Option | Subject | Description |
|---|---|---|
| CK | Health Checker | Display information from IBM Health Checker for z/OS about the active checks |
| CKH | Health Check History | Display instances of a check when the "L" command is typed next to a specific health check from the CK panel |
| DA | Display Active Users | Display information about MVS address spaces (jobs, started tasks and TSO users) that are running |
| ENC | Enclaves | Display WLM enclaves |
| H | Held Output Queue | Display information about SYSOUT data sets for jobs, started tasks and TSO users on any held JES output queue |
| I | Input Queue | Display information about jobs that are on the JES input queue or that are executing |
| INIT | Initiators | Display information about JES-managed and WLM-managed initiators |
| JC | Job Classes | Display and control the job classes in the JES2 MAS or JES3 JESPLEX |
| ? | Job Data Sets | Display information about SYSOUT data sets for selected jobs, started tasks and TSO users.  When the JDS panel is accessed from the DA, I, or ST panel, the values for all the columns are obtained from the spool data set.  When the JDS panel is accessed from the H or O panel, the values for some columns are obtained from in-storage control blocks |
| JP (MAS) | JESPLEX | Display and control the members in a JES3 JESPLEX. Will display the Multi-Access Spool (MAS) panel when executed in a JES2 environment |

# Panels (📎)

| Option | Subject | Description |
|---|---|---|
| LI | Lines | Display information about JES lines and their associated transmitters and receivers |
| MAS (JP) | Multi-Access Spool | Display and control the members in a JES2 MAS |
| NC | Network Connections | Display information about JES networking connections to an adjacent node |
| NO | Nodes | Display information about JES nodes |
| NS | Network Servers | Display information about JES server-type networking devices on the node |
| O | Output Queue | Display information about SYSOUT data sets for jobs, started tasks and TSO users on any nonheld JES output queue |
| OD | Output Descriptors | Display JES output descriptors.  In a JES2 environment, columns can be overtyped only if you accessed the OD panel from the O or H panel, or from a JDS panel that was accessed from the O or  H panel.  When you overtype a column on the OD panel, the change applies to all data sets for that group |
| PR | Printers | Display information about JES printers and jobs being printed |
| PS | Process | Display information about z/OS UNIX System Services processes |
| PUN | Punches | Display information about JES punches and jobs being punched |
| RDR | Readers | Display information about JES readers and jobs being processed by readers |
| RES | WLM Resources | Display information about WLM resources in the sysplex or a scheduling environment (R from the SE panel) |
| RM | Resource Monitor | Display information about JES2 resources |

# Panels (📎)

| Option | Subject | Description |
|--------|---------|-------------|
| SE | Scheduling Environments | Display information about scheduling environments |
| SO | Spool Offload | Display information about JES2 spool offloaders and their associated transmitters and receivers |
| SP | Spool Volumes | Display and control JES spool volumes |
| SR | System Requests | Display information about reply and action messages |
| ST | Status of Jobs | Display information about jobs, started tasks and TSO users on the JES queues |

# NP Commands

# NP Column

- What does the "NP" column mean?
  - Possibly "Non-Protected" or "iNPut" field
  - The answer is not documented anywhere in the SDSF manuals which refer to NP commands as action characters

```
    Display  Filter  View  Print  Options  Search  Help
    --------------------------------------------------------------------------
   SDSF STATUS DISPLAY ALL CLASSES                    LINE 1-19 (1011)
   COMMAND INPUT ===>                                 SCROLL ===> CSR_
   NP    JOBNAME  JobID    Owner    Prty Queue      C  Pos  SAff  ASys Status
         R2223@LC J0002584 SSPBATC    15 EXECUTION  R                    HOLD
         R2223@LC J0002585 SSPBATC    15 EXECUTION  R                    HOLD
         R2223@LC J0002586 SSPBATC    15 EXECUTION  R                    HOLD
         R2027DEV J0008943 R2027      15 EXECUTION  R
         R2255YZL J0046727 R2255      15 EXECUTION  R                    HOLD
         RPRD002  J0092111 SSPBATC    15 EXECUTION  R                    HOLD
         RUSR002  J0096643 R1800      15 EXECUTION  R                    HOLD
         R2339D28 J0061422 R2339      15 EXECUTION  R    1
         @PDSM18  J0077694 R2379      15 EXECUTION  S    1
         XSAHCR   J0063114 RB107      15 EXECUTION  X                    HOLD
         R1643    T0081783 R1643      15 EXECUTION         DV27  DV27
         R9992    T0081786 R9992      15 EXECUTION         DV27  DV27
         R9988    T0081818 R9988      15 EXECUTION         DV27  DV27
         R6895    T0081829 R6895      15 EXECUTION         DV27  DV27
         R2247    T0081837 R2247      15 EXECUTION         DV27  DV27
         R9984    T0081846 R9984      15 EXECUTION         DV27  DV27
         R2255    T0081854 R2255      15 EXECUTION         DV27  DV27
         RW849    T0081860 RW849      15 EXECUTION         DV27  DV27
         R9993    T0081862 R9993      15 EXECUTION         DV27  DV27
```

# NP Commands

- The next few slides list all NP commands in alphabetical order and
  - SDSF action or MVS/JES2 commands being issued
  - Valid panels
  - Command level

- Command Level
  - Distinguishes the security access required when using ISFPARMS
    - Wells Fargo and other companies no longer use ISFPARMS
    - Instead, ACF2, RACF, TSS or a SAF-compliant External Security Manager (ESM) is used to control access to SDSF commands
  - Each command level is inclusive of all levels with a lower number
    - For example, a user with a command level of 3 can perform the functions requiring a command level of 3, 2, 1 and 0

- Highlighted in <mark>yellow</mark> are probably the most used NP commands

# NP Commands (📎)

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| + | Expand NP column width (use RESET to reset) | All tabular panels except OD | 0 |
| // | Block command | All tabular panels except OD | 0 |
| = | Repeat command | All tabular panels except OD | 0 |
| ? | List job data sets | DA, H, I, O, OD, ST | 0 |
| A | $TO (Set output) | H, O | 2 |
| A | F (Modify activate) | CK | 3 |
| A | $A (Release) | DA, I, ST | 3 |
| AI | SETAUTOR | SR | 3 |
| Bx | $B (Back space) | PR, PUN | 3 |
| C | $C (Cancel) | DA, H, I, JDS, O, ST, LI, NO, PR, PUN, RDR, SO | 2 |
| C | $CO (Cancel) | H, O | 2 |
| C | C | NC | 3 |
| C | C (Cancel) | PS | 3 |
| C | K C | SR | 3 |
| CA | $C,ARMRESTART | DA, I, ST | 2 |

# NP Commands (📎)

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| CD | $C (Cancel, dump) | DA, I, ST | 2 |
| CDA | $C,D,ARMRESTART | DA, I, ST | 2 |
| D | $D (Display) | DA, I, ST, INIT, JC, LI, MAS, NC, NO, NS, PR, PUN, RDR, RM, SO, SP | 1 |
| D | D (Display) | PS, RES, SE, SR | 1 |
| D | F (Modify display) | CK | 3 |
| DA | $D (Display) | NS | 1 |
| DC | $D (Display) | NO | 1 |
| DL | $D (Display) | DA, I, ST, INIT, NC, NS, PR, PUN, RDR, SP | 1 |
| DL | F (Modify display) | CK | 3 |
| DP | $D (Display) | NO | 1 |
| DP | F (Modify display) | CK | 3 |
| DPO | F (Modify display) | CK | 3 |
| DS | $D (Display) | NS | 1 |
| DS | F (Modify display) | CK | 3 |

# NP Commands (📎)

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| E | Erase output descriptors | OD | 2 |
| E | $E (Restart) | DA, I, ST, LI, NO, PR, PUN, SO | 2 |
| E | F (Modify refresh) | CK | 3 |
| E | $E (Restart) | NC, NS | 3 |
| E | $E (Restart) | MAS | 4 |
| EC | $E (Restart) | DA, I, ST | 2 |
| ES, ESH | $E (Restart) | DA, I, ST | 2 |
| Fx | $F (Forward space) | PR, PUN | 3 |
| H | $H (Hold) | DA, I, ST | 2 |
| H | $TO (Set output) | H, O | 2 |
| H | SSI | JDS | 2 |
| H | F (Modify deactivate) | CK | 3 |
| H | $H (Hold) | JC | 3 |
| I | Display more information | ENC, I, ST | 0 |
| I | $I (Interrupt) | PR, PUN | 3 |

# NP Commands (📎)

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| I | $T (Set) | LI | 3 |
| J | $J | MAS | 1 |
| J | $D (Display) | SP | 1 |
| J | $SJ (Start) | I, ST | 3 |
| JD | $J | MAS | 1 |
| JH | $J | MAS | 1 |
| JJ | $J | MAS | 1 |
| JS | $J | MAS | 1 |
| K | C (Cancel) | DA | 3 |
| K | F (Modify) | PR | 3 |
| K | F (Modify) | PS | 3 |
| KD | CANCEL | NS | 3 |
| KD | C (Cancel,dump) | DA | 3 |
| L | $L | DA, I | 1 |
| L | $DO | H, O, ST | 1 |

# NP Commands (📎)

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| L | Display check history | CK | 1 |
| LL | $L (List) | DA | 1 |
| LL | $DO | H, O, ST | 1 |
| M | Match a multisystem enclave | ENC | 0 |
| N | $N (Repeat) | PR, PUN | 3 |
| O | $O | JDS, ST | 2 |
| O | $TO | H | 2 |
| OK | $TO | H | 2 |
| P | $C (Purge) | DA, H, I, JDS, O, ST | 2 |
| P | $CO (Purge) | H, O | 2 |
| P | $P (Stop) | NC, NS | 3 |
| P | F (Modify delete) | CK | 3 |
| P | $P (Stop) | NC, NS | 3 |
| P | $P (Stop) | INIT, LI, PR, PUN, RDR, SO, SP | 3 |
| P | $P (Stop) | MAS | 4 |

# NP Commands (📎)

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| PC | $P (Stop) | SP | 3 |
| PF | F (Modify delete, force) | CK | 3 |
| PP | $C (Purge protected) | DA, I, ST | 2 |
| Q | Display output descriptors | DA, H, I, JDS, O, ST | 0 |
| Q | $T (Set) | LI | 3 |
| R | Display WLM resources | SE | 0 |
| R | F (Modify run) | CK | 3 |
| R | RESET (RMF) | DA | 3 |
| R | Reset ENC | ENC | 3 |
| R | R (Reply) | SR | 3 |
| RQ | RESET (RMF) | DA | 3 |
| RQ | Reset and quiesce ENC | ENC | 3 |
| S | Display check results or job data sets | CK, CKH, DA, H, I, JDS, O, OD, ST | 0 |
| S | $S (Start) | INIT, LI, MAS, PR, PUN, RDR, SO, SP | 3 |
| S | $S (Start) | NC, NS | 3 |

# NP Commands (📎)

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| SB | Display check results or browse job data sets | CK, CKH, DA, H, I, JDS, O, OD, ST | 0 |
| SBI | Browse REXX input data set using ISPF browse | CK | 0 |
| SBO | Browse REXX output data set using ISPF browse | CK | 0 |
| SE | Display check results or edit job data sets | CK, CKH, DA, H, I, JDS, O, OD, ST | 0 |
| SEI | Edit REXX input data set using ISPF browse | CK | 0 |
| SEO | Edit REXX output data set using ISPF browse | CK | 0 |
| SJ | Display check results or job data sets | DA, H, I, JDS, O, OD, ST | 0 |
| SN | $S (Start) | NC, NO | 3 |
| SR | $S (Start) | SO | 3 |
| ST | Display associated jobs | JC, SE | 0 |
| ST | Display ST | JC | 1 |
| ST | $S (Start) | SO | 3 |
| T | F (Modify) | PS | 3 |
| U | F (Modify update, repcat) | CK | 3 |
| V | View page-mode data | JDS, OD | 0 |

# NP Commands ( )

| NP Command | SDSF Action or MVS/JES2 Commands Issued | Valid Panels | Command Level |
|---|---|---|---|
| W | $T (Set) | DA, I, JDS, ST | 2 |
| X | Print data set | CK, CKH, DA ,H, I, JDS, O, OD, ST | 0 |
| XC | Print data set and close print file | CK, CKH, DA ,H, I, JDS, O, OD, ST | 0 |
| XD, XDC | Print data set using Open Print Data Set panel | CK, CKH, DA ,H, I, JDS, O, OD, ST | 0 |
| XF, XFC | Print data set using Open Print File panel | CK, CKH, DA ,H, I, JDS, O, OD, ST | 0 |
| XS, XSC | Print data set using Open Print panel for SYSOUT | CK, CKH, DA ,H, I, JDS, O, OD, ST | 0 |
| Y | P (Stop) (RMF) | DA | 3 |
| Y | STOP | NS | 3 |
| Z | $Z (Halt) | INIT, PR, PUN, RDR, SP | 3 |
| Z | FORCE | DA | 3 |
| Z | FORCE | NS | 3 |
| ZM | $J | MAS | 4 |

# NP Example

- Save four reports to a data set using the XD, X and XC commands

- Example:

```
   Display  Filter  View  Print  Options  Search  Help
   ----------------------------------------------------------------------
   SDSF JOB DATA SET DISPLAY - JOB @SSTEST1 (J0112337)    LINE 1-9 (9)
   COMMAND INPUT ===>                                     SCROLL ===> CSR_
   NP    DDNAME    StepName ProcStep DSID Owner    C Dest           Rec-Cnt
         JESJCLIN                     1 R2221     T                     25
         JESMSGLG JES2                2 R2221     T LOCAL               18
         JESJCL   JES2                3 R2221     T LOCAL               26
         JESYSMSG JES2                4 R2221     T LOCAL               61
         $INTTEXT JES2                5 R2221     A                     17
   XD    DAFCS    DAF               101 R2221     T                      1
   X     DAFLOG   DAF               102 R2221     T LOCAL              582
   X     DAFSNAP  DAF               105 R2221     T LOCAL               40
   XC    DAFSTAT  DAF               106 R2221     T LOCAL              130
```

# Primary Commands

# Primary Commands

- The next few slides demonstrate how to customize the SDSF screens

- These commands can be executed from any panel or accessed from the action bar located above the primary command line

- A question mark (?) can be passed as a parameter to display a pop-up panel on most commands

- After executing these commands, terminate SDSF to ensure the settings are saved

# KEYS

- Validate that PF5 is IFIND and PF12 is CRETRIEV
    - ➔ KEYS

- Results:

```
                    PF Key Definitions and Labels - Primary Keys
Command ===> _____

Number of PF Keys . . . 24                      Terminal type  . : 3278

PF1  . . . HELP
PF2  . . . SPLIT
PF3  . . . END
PF4  . . . RETURN
PF5  . . . IFIND
PF6  . . . BOOK
PF7  . . . UP
PF8  . . . DOWN
PF9  . . . SWAP
PF10 . . LEFT
PF11 . . RIGHT
PF12 . . CRETRIEV

PF1  label  . . _____     PF2  label  . . _____     PF3  label  . . _____
PF4  label  . . _____     PF5  label  . . _____     PF6  label  . . _____
PF7  label  . . _____     PF8  label  . . _____     PF9  label  . . _____
PF10 label  . . _____     PF11 label  . . _____     PF12 label  . . _____

Press ENTER key to display alternate keys. Enter END command to exit.
```

# ?

- Display alternate columns (which are defined in ISFPARMS)
  - ➔ ?

- Results:

```
    Display  Filter  View  Print  Options  Search  Help
 ------------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                       LINE 1-4 (4)
 COMMAND INPUT ===>                                    SCROLL ===> CSR
 NP    JOBNAME  JOBID     OWNER    MC ST-DATE   ST-TIME   QUEUE      ISYS MAX-RC
       @SSTEST1 J0080642 R2221     T  2012.290 12:50:00 PRINT       DV27 CC 0000
       @SSTEST2 J0080640 R2221     T  2012.290 12:49:55 PRINT       DV27 CC 0000
       @SSTEST3 J0080638 R2221     T  2012.290 12:49:49 PRINT       DV27 CC 0000
       R2221    T0080591 R2221     9  2012.290 12:31:35 EXECUTION   DV27
```

# SET ACTION [SHORT | <u>LONG</u> | OFF | ?]

- Display action characters (NP commands)
  - ➔ SET ACTION SHORT

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
-------------------------------------------------------------------------
SDSF STATUS DISPLAY ALL CLASSES                      SET COMMAND COMPLETE
COMMAND INPUT ===>                                   SCROLL ===> CSR
ACTION=//,=,+,?,A,C,CA,CD,CDA,D,DL,E,EC,ES,ESH,H,I,J,L,LL,O,P,PO,PP,Q,S,SB,SE,
ACTION=SJ,W,X,XC,XD,XDC,XF,XFC,XS,XSC
NP    JOBNAME   JobID     Owner     Prty Queue      C   Pos  SAff  ASys Status
      R2223@LC  J0002584  SSPBATC     15 EXECUTION   R                    HOLD
      R2223@LC  J0002585  SSPBATC     15 EXECUTION   R                    HOLD
      R2223@LC  J0002586  SSPBATC     15 EXECUTION   R                    HOLD
      R2027DEV  J0008943  R2027       15 EXECUTION   R
      R2255YZL  J0046727  R2255       15 EXECUTION   R                    HOLD
      RPRD002   J0092111  SSPBATC     15 EXECUTION   R                    HOLD
      RUSR002   J0096643  R1800       15 EXECUTION   R                    HOLD
      R2339D28  J0061422  R2339       15 EXECUTION   R      1
      @PDSM18   J0077694  R2379       15 EXECUTION   S      1
      XSAHCR    J0063114  RB107       15 EXECUTION   X                    HOLD
      R9991     T0080460  R9991       15 EXECUTION        DV27  DV27
      R9988     T0080462  R9988       15 EXECUTION        DV27  DV27
      R9990     T0080479  R9990       15 EXECUTION        DV27  DV27
      R2253     T0080558  R2253       15 EXECUTION        DV27  DV27
      R9984     T0080571  R9984       15 EXECUTION        DV27  DV27
      R9985     T0080577  R9985       15 EXECUTION        DV27  DV27
```

# SET DISPLAY [ON | OFF | LONG | ?]

- Display PREFIX, OWNER and other settings
  - ➔ SET DISPLAY

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 ---------------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                         SET COMMAND COMPLETE
 COMMAND INPUT ===>                                      SCROLL ===> CSR_
 PREFIX=*   DEST=(ALL)   OWNER=*   SYSNAME=
 NP    JOBNAME  JobID    Owner     Prty Queue      C  Pos  SAff  ASys Status
       R2223@LC J0002584 SSPBATC    15 EXECUTION   R                   HOLD
       R2223@LC J0002585 SSPBATC    15 EXECUTION   R                   HOLD
       R2223@LC J0002586 SSPBATC    15 EXECUTION   R                   HOLD
       R2027DEV J0008943 R2027      15 EXECUTION   R
       R2255YZL J0046727 R2255      15 EXECUTION   R                   HOLD
       RPRD002  J0092111 SSPBATC    15 EXECUTION   R                   HOLD
       RUSR002  J0096643 R1800      15 EXECUTION   R                   HOLD
       R2339D28 J0061422 R2339      15 EXECUTION   R     1
       @PDSM18  J0077694 R2379      15 EXECUTION   S     1
       XSAHCR   J0063114 RB107      15 EXECUTION   X                   HOLD
       R9991    T0080460 R9991      15 EXECUTION          DV27  DV27
       R9988    T0080462 R9988      15 EXECUTION          DV27  DV27
       R0323    T0080467 R0323      15 EXECUTION          DV27  DV27
       R9990    T0080479 R9990      15 EXECUTION          DV27  DV27
       RW515    T0080504 RW515      15 EXECUTION          DV27  DV27
       R2253    T0080558 R2253      15 EXECUTION          DV27  DV27
       R8262    T0080561 R8262      15 EXECUTION          DV27  DV27
       RB105    T0080562 RB105      15 EXECUTION          DV27  DV27
```

# SET DISPLAY LONG

- Display sort criteria
  - ➔ SET DISPLAY LONG

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                     SET COMMAND COMPLETE
 COMMAND INPUT ===>                                          SCROLL ===> CSR_
 PREFIX=*  DEST=(ALL)   OWNER=*   SORT=JOBNAME/A END-DATE//D END-TIME//D
 SYSNAME=*
 NP    JOBNAME  JobID    Owner    Prty Max-RC      Queue       C  Pos  SAff  ASys S
       $AVRS27  S0163356 AVR#DVP    1 CC 0000      PRINT          1024
       $AVRS27  S0162582 AVR#DVP    1 CC 0000      PRINT           938
       $AVRS27  S0161745 AVR#DVP    1 CC 0000      PRINT           873
       $AVRS27  S0160876 AVR#DVP    1 CC 0000      PRINT           800
       $AVRS27  S0159169 AVR#DVP    1 CC 0000      PRINT           724
       $AVRS27  S0164291 AVR#DVP   15              EXECUTION           DV27  DV27
       $MASCOMM S0000001 *BYPASS*  15              PRINT            1
       @CKMW1   J0042037 R6406     15              EXECUTION   R
       @CKMW2   J0042052 R6406     15              EXECUTION   R
       @DMBKUPA J0164045 R0196      1 CC 0000      PRINT       R  999
       @DMREPT  J0162363 R2274      1 CC 0000      PRINT       O  862
       @DMREPT  J0162355 R2274      1 CC 0000      PRINT       O  861
       @DMREPT  J0162354 R2274      1 CC 0000      PRINT       O  860
       @DMREPT  J0162353 R2274      1 CC 0000      PRINT       O  859
       @DMREPT  J0162343 R2274      1 CC 0000      PRINT       O  857
       @DSA19RS J0163926 A192299    1 CC 0000      PRINT       R  995
       @DSA19RS J0160478 A192299    1 CC 0000      PRINT       R  684
```

# PREFIX [jobname | * | ? ]

- Display all job names starting with a particular character string
  - ➔ PRE @SSTEST* ; OWNER *

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 ----------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                     LINE 1-3 (3)
 COMMAND INPUT ===>                                  SCROLL ===> CSR
 PREFIX=@SSTEST*  DEST=(ALL)   OWNER=*   SYSNAME=
 NP   JOBNAME  JobID    Owner     Prty Queue       C   Pos  SAff  ASys Status
      @SSTEST1 J0080638 R2221        1 PRINT        R   579
      @SSTEST2 J0080640 R2221        1 PRINT        R   581
      @SSTEST3 J0080642 R2221        1 PRINT        R   583
```

# OWNER  [userid | * | ?]

- Display all jobs submitted by a particular userid
    - ➔ OWNER  R2221 ; PRE  *

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
  --------------------------------------------------------------------
  SDSF STATUS DISPLAY ALL CLASSES                    LINE 1-4 (4)
  COMMAND INPUT ===>                                 SCROLL ===> CSR_
  PREFIX=*  DEST=(ALL)  OWNER=R2221   SYSNAME=
  NP    JOBNAME  JobID     Owner     Prty Queue      C  Pos  SAff  ASys Status
        R2221    T0080591  R2221       15 EXECUTION         DV27  DV27
        @SSTEST1 J0080638  R2221        1 PRINT       R  579
        @SSTEST2 J0080640  R2221        1 PRINT       R  581
        @SSTEST3 J0080642  R2221        1 PRINT       R  583
```

# S  [jobname]

- Display specific job names
  - ➔ S  PDSMAN

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
   ---------------------------------------------------------------------
   SDSF STATUS DISPLAY ALL CLASSES                       LINE 1-4 (4)
   COMMAND INPUT ===>                                    SCROLL ===> CSR
   PREFIX=*  DEST=(ALL)   OWNER=R2221    SYSNAME=*
   NP   JOBNAME  JobID     Owner    Prty Queue        C  Pos   SAff  ASys Status
        PDSMAN   S0074532 PDS#MANP    15 EXECUTION            DV21  DV21
        PDSMAN   S0075461 PDS#MANP    15 EXECUTION            DV25  DV25
        PDSMAN   S0076553 PDS#MANP    15 EXECUTION            DV26  DV26
        PDSMAN   S0077723 PDS#MANP    15 EXECUTION            DV22  DV22
```

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

# SYSNAME  [lpar | * | ?]

- Display all jobs/started tasks within the sysplex
  - ➔ SYSN *

- Results:

```
 Display  Filter  View  Print  Options  Search  Help
 ------------------------------------------------------------------------
 SDSF DA DV27      (ALL)     PAG  0  CPU/L    3/ 1      LINE 1-2 (2)
 COMMAND INPUT ===>                                    SCROLL ===> CSR_
 PREFIX=VT*  DEST=(ALL)  OWNER=*  SYSNAME=*
 NP   JOBNAME   CPU% ASID ASIDX  EXCP-Cnt   CPU-Time SR Status SysName  SPag SCP
      VTAM      0.15   84 0054      41994     146.54           SDV27       0
      VTAM      0.12   80 0050      42826      99.09           SDV28       0
```

# ARRANGE  [col1]  [A|B]  [col2] | ?

- Move column MAX-RC before column PRTY
  - → ARR  MAX-RC  B  PRTY

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                      LINE 1-4 (4)
 COMMAND INPUT ===>                                   SCROLL ===> CSR_
 PREFIX=*  DEST=(ALL)   OWNER=R2221   SYSNAME=*
 NP   JOBNAME  JobID     Owner    Max-RC    Prty Queue      C  Pos  SAff  ASys S
      R2221    T0080992 R2221               15 EXECUTION          DV27  DV27
      @SSTEST1 J0080638 R2221     CC 0000    1 PRINT      R  485
      @SSTEST2 J0080640 R2221     CC 0000    1 PRINT      R  486
      @SSTEST3 J0080642 R2221     CC 0000    1 PRINT      R  487
```

# ARRANGE ?

- Move columns and change column widths using a pop-up panel
  - ➔ ARR ?

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 --------------
 SDSF STATUS DI                                Arrange            Row 1 to 11 of 27
 COMMAND INPUT    Command ===> _____
 PREFIX=*  DEST
 NP   JOBNAME    Select a column or block with / or // then type A (after) or
      R2221      B (before) to move. Special function keys:
      @SSTEST1   F5/17=Refresh list  F11/23=Clear input  F6/18=Default order
      @SSTEST2
      @SSTEST3   ___    Column            Width   Description
                 ___    JobID               _8
                 ___    Owner               _8
                 ___    Max-RC             _10
                 ___    Prty                _4
                 ___    Queue              _10
                 ___    C                   _1
                 ___    Pos                 _5
                 ___    SAff                _5
                 ___    ASys                _4
                 ___    Status             _17
                 ___    PrtDest            _18
```

# FILTER  [col] [=, etc.] [value] | ? | OFF

- Display only job names equal to R2221*
  - ➔ FIL JOBNAME = @SSTEST*

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                   LINE 1-3 (3)
 COMMAND INPUT ===>                                       SCROLL ===> CSR_
 PREFIX=*  DEST=(ALL)   OWNER=*   FILTERS=1   SYSNAME=*
 NP    JOBNAME  JobID     Owner     Max-RC     Prty Queue     C  Pos  SAff  ASys S
       @SSTEST1 J0080638 R2221     CC 0000        1 PRINT     R   485
       @SSTEST2 J0080640 R2221     CC 0000        1 PRINT     R   486
       @SSTEST3 J0080642 R2221     CC 0000        1 PRINT     R   487
```

# FILTER ?

- Filter columns using a pop-up panel
    - ➔ FIL ?

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 -----------------------------------------------------------------------
 SDSF STAT                             Filter           Row 1 to 9 of 25
 COMMAND    Command ===> _____  => CSR_
 PREFIX=*
 NP   JOBN   Type filter criteria. Press F4/16 in the Column or Oper     ASys S
      @SST   field for values, or in the Value field for system symbols.
      @SST   Press F11/23 to clear all filter criteria.
      @SST   Filtering is  OFF

             AND/OR between columns    AND   (AND/OR)
             AND/OR within a column    OR    (AND/OR)

             Column                Oper  Value (may include * and %)
             _____      __    _____
             _____      __    _____
             _____      __    _____
             _____      __    _____
             _____      __    _____
             _____      __    _____
             _____      __    _____
             _____      __    _____
             _____      __    _____
```

# FILTER ?

- From the 'Filter' pop-up panel, place the cursor on the 'Column' field and press F4 to obtain a list of column names

- Results:

```
   Display   Filter   View   Print   Options   Search   Help
----------                                                          ---------
SDSF STAT                                Filter          Row 1 to 9 of 25
COMMAND I                                                                CSR_
PREFIX=*                         Column Select        Row 1 to 15 of 49
NP   JOBN      Command ===> _____          ASys S
     @SST
     @SST      Selection: ___
     @SST        1.   JOBNAME
                 2.   JobID
                 3.   Owner
                 4.   Prty
                 5.   Max-RC
                 6.   Queue
                 7.   C
                 8.   Pos
                 9.   SAff
                10.   ASys
                11.   Status
                12.   PrtDest
                13.   SecLabel
                14.   TGNum
                15.   TGPct
```

# FILTER ?

- From the 'Filter' pop-up panel, place the cursor on the 'Oper' field and press F4 to obtain a list of operators

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
---------------------------------------------------------------------
SDSF STAT                               Filter          Row 1 to 9 of 25
COMMAND I                                                          => CSR_
PREFIX=*                                                       or Oper    ASys S
NP  JOBN                            Operators                       all
    @SST  __  1.  EQ or =   (equal)
    @SST      2.  NE or ¬= (not equal)
    @SST      3.  LT or <   (less than)
              4.  GT or >   (greater than)
              5.  LE or <= (less than or equal)
              6.  GE or >= (greater than or equal)
                                                              and %)
       F1=Help  F12=Cancel
```

# FILTER ?

- From the 'Filter' pop-up panel, place the cursor on the 'Value' field and press F4 to obtain a list of system symbols

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
   ----------------------------------------------------------------
   SDSF STAT                              Filter        Row 1 to 9 of 25
   COMMAND I                                                              CSR_
   PREFIX=*                    System Symbols       Row 1 to 12 of 68
   NP   JOBN                                                             ASys S
        @SS    Command ===> _____
        @SS
        @SS    The values may change. Use them only as examples.

               Selection: _____
                         Symbol      Value
                    1.  &$CILPARX.  CICS$X$$
                    2.  &$CILPARY.  CIPA$X$$
                    3.  &$ESABINO.  V3131
                    4.  &$ESCLFED.  V9R5M40
                    5.  &$ESCLIPX.  CACDS1
                    6.  &$ESDEBUG.  R13V01M0
                    7.  &$ESDMSLL.  SET2
                    8.  &$ESDMSXX.  SET2
                    9.  &$ESENDEV.  R16SP0
                   10.  &$ESIBMAP.  V13R1
                   11.  &$ESIBMCC.  V1R7
                   12.  &$ESIBMFA.  V13
```

# SORT [+|-] [column] [A|D] | ? | OFF

- Display the most recent or the oldest jobs at the top
  - ➔ SORT  END-DATE  D  END-TIME  D        (the most recent at the top)
  - ➔ SORT  ST-DATE  D  ST-TIME  D          (the oldest at the top)
- Results:

```
    Display  Filter  View  Print  Options  Search  Help
 --------------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                        LINE 1-4 (4)
 COMMAND INPUT ===>                                      SCROLL ===> CSR_
 PREFIX=*  DEST=(ALL)   OWNER=R2221   SORT=END-DATE//D END-TIME//D  SYSNAME=*
 NP    JOBNAME   END-DATE END-TIME  TOT-LINES PRTDEST            SECLABEL ORIGNOD
       @SSTEST3  2012.290 12:50:00         48 LOCAL                       LOCAL
       @SSTEST2  2012.290 12:49:55         48 LOCAL                       LOCAL
       @SSTEST1  2012.290 12:49:49         48 LOCAL                       LOCAL
       R2221     0000.000  0:00:00         42 LOCAL                       LOCAL
```

# SORT ?

- Sort columns using a pop-up panel
  - ➔ SORT ?

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
   -----------------------------------------------------------------  --
   SDSF STATUS DISPL                        Sort
   COMMAND INPUT ===     Command ===> _____
   PREFIX=*  DEST=(A
   NP   JOBNAME  Job     Type sort criteria.  Type / for Column Title to see a    S
        R2221    T00     list.  Press F11/23 to clear all sort criteria.
        @SSTEST1 J00
        @SSTEST2 J00     Sorting is OFF
        @SSTEST3 J00
                         Column Title        A or D (Ascending or Descending)

                         _____   _
                         _____   _
                         _____   _
                         _____   _
                         _____   _
                         _____   _
                         _____   _
                         _____   _
                         _____   _
```

# SORT ?

- From the 'Sort' pop-up panel, type in a / in the 'Column Title' field and press ENTER to obtain a list of column names

- Results:

```
    Display  Filter  View  Print  Options  Search  Help
 ----------------                                              --
 SDSF STATUS DISPL                        Sort
 COMMAND INPUT ===
 PREFIX=*  DEST=(A           Column Select     Row 1 to 15 of 49
 NP   JOBNAME   Job      Command ===> _____      S
      R2221     T00
      @SSTEST1 J00     Selection: ___
      @SSTEST2 J00       1.   JOBNAME
      @SSTEST3 J00       2.   JobID
                         3.   Owner
                         4.   Prty
                         5.   Max-RC
                         6.   Queue
                         7.   C
                         8.   Pos
                         9.   SAff
                        10.   ASys
                        11.   Status
                        12.   PrtDest
                        13.   SecLabel
                        14.   TGNum
                        15.   TGPct
```

# SEARCH  [text]

- Search and display tutorials on the SORT command
  - ➔ SEARCH  SORT

- Results:

```
                                    Search Help              Row 1 to 16 of 183
Command ===>  _____

Search for: SORT_____ _ Show titles

_     Select a search result to display the help panel.
_     the value to null sorts the panel using the fixed field (the first
_     4 - SORT Sort data on tabular panels
_     SORT column A D - Sort based on a column, ascending or descending.
_     SORT column A D - Sort based on a column, ascending or descending.
_     SORT column A - Sort based on a column, in ascending order.
_     SORT column A - Sort based on a column, in ascending order.
_     SORT column A - Sort based on a column, in ascending order.
_     SORT column A D - Sort based on a column, ascending or descending
_     SORT column A D - Sort based on a column, ascending or descending.
_     SORT column A D - Sort based on a column, ascending or descending
_     SORT column A D - Sort based on a column, ascending or descending
_     SORT column A - Sort based on a column, in ascending order.
_     SORT column A D - Sort based on a column, ascending or descending
_     SORT column A D - Sort based on a column, ascending or descending
_     SORT column A - Sort based on a column, in ascending order.
```

# WHO

- Display ISPF, SDSF and other system information
  - ➔ WHO

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                        LINE 1-1 (1)
 COMMAND INPUT ===>                                     SCROLL ===> CSR
   USERID=R2221,PROC=IKJTSO01,TERMINAL=T#3KWGF,GRPINDEX=1,GRPNAME=SDSFV1R6,
 MVS=z/OS 02.01.00,JES=z/OS 2.1,SDSF=HQX7790,ISPF=7.1,RMF/DA=NOTACC,SERVER=YES,
 SERVERNAME=SDSFWF,JESNAME=JES2,MEMBER=DV27,JESTYPE=JES2,SYSNAME=SDV27,
 SYSPLEX=TSAPLEX,COMM=NOTAVAIL,COMMX=ENABLED
```

# LOG

# OPERLOG vs. SYSLOG

- OPERLOG
  - Operations log (OPERLOG)
  - Is a merged, sysplex-wide system message log
  - It is provided by a log stream
    - Which is a collection of log data used by the MVS System Logger

- SYSLOG
  - Systems log (SYSLOG)
  - Contains a logical partition's (lpar) message log
  - It is a SYSOUT data set produced by the Job Entry Subsystem (JES2/3)
    - SYSOUT data sets are output spool data sets on direct access storage devices (DASD)

- SDSF LOG command
  - Used to display the OPERLOG or a single system's SYSLOG

# LOG OPERLOG

- Display the OPERLOG (which is the default)
  - ➔ LOG

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
-----------------------------------------------------------------------
 SDSF OPERLOG  DATE 10/16/2012     6 WTORS                COLUMNS 02- 81
 COMMAND INPUT ===>                                       SCROLL ===> CSR
N 0000000 SDV28      12290 16:42:14.76 28         00000210 ANTL8801I XQUERY SDMVMB
N 4000000 SDV28      12290 16:42:14.77 28         00000010 ANTU2515I XQUERY SUMMARY
N 0000000 SDV28      12290 16:42:14.77 28         00000210 ANTL8801I XQUERY SDMVMA
N 4000000 SDV28      12290 16:42:15.57 28         00000010 ANTU2515I XQUERY CONFIGU
N 4000000 SDV28      12290 16:42:15.68 28         00000010 ANTU2515I XQUERY CONFIGU
N 4000000 SDV28      12290 16:42:15.84 28         00000010 ANTU2515I XQUERY CONFIGU
N 4000000 SDV28      12290 16:42:15.87 28         00000010 ANTU2515I XQUERY CONFIGU
N 0020000 SDV27      12290 16:42:19.81 S0080735   00000201 GVB686I   SYS00001 ACB ST
S                                                          VALUES
N 0020000 SDV27      12290 16:42:19.81 S0080735   00000201 GVB105I   SYS00001 BUFSP=
N 0020000 SDV27      12290 16:42:19.82 S0080735   00000201 GVB686I   SYS00003 ACB ST
S                                                          VALUES
N 0020000 SDV27      12290 16:42:19.82 S0080735   00000201 GVB105I   SYS00003 BUFSP=
N 0020000 SDV27      12290 16:42:19.83 S0080735   00000201 GVB686I   $AVRLOCK ACB ST
S                                                          VALUES
N 0020000 SDV27      12290 16:42:19.83 S0080735   00000201 GVB105I   $AVRLOCK BUFSP=
N 4220000 SDV27      12290 16:42:19.84 S0080735   00000201 $AVR455I - BPXAS(S008099
N 0200000 SDV27      12290 16:42:20.13 S0080993   00000201 $HASP250 BPXAS PURGED --
N 0080000 SDV28      12290 16:42:24.47 S0078681   00000201 ETCL300I Database update
N 8000000 SDV27      12290 16:42:24.71 S0080473   00400000 GDP152E ONE OR MORE SESS
```

# LOG SYSLOG

- Display the SYSLOG
  - ➔ LOG S

- Results:

```
    Display  Filter  View  Print  Options  Search  Help
  --------------------------------------------------------------------
   SDSF SYSLOG  78865.106 DV27 DV27 10/16/2012 6W        112,065 COLUMNS 02- 81
   COMMAND INPUT ===>                                      SCROLL ===> CSR
  M 0020000 SDV27      12290 16:45:31.17 S0078915 00000201   IEC205I SYS10649,DFSMSHS
  E                                            626 00000201   DSN=DVPR9.BACKTAPE.DATAS
  N 0000000 SDV27      12290 16:45:31.17 27        00000201   IEA989I SLIP TRAP ID=X33
  N 0000000 SDV27      12290 16:45:31.17 27        00000201   IEA989I SLIP TRAP ID=X33
  N 0000000 SDV27      12290 16:45:31.17 27        00000201   IEA989I SLIP TRAP ID=X33
  N 2000000 SDV27      12290 16:45:31.42 S0078915 00000010   TMS014   IEF234E K 07ED,D
  N 2000000 SDV27      12290 16:45:31.42 S0078915 00080214   IEF234E K 07ED,DW2863,PV
  N 0000000 SDV27      12290 16:45:49.98 S0078867 00000200   OPS3724O TSO TOD.SSHDCHE
  N 0000000 SDV27      12290 16:45:49.98 S0078867 00000200   OPS3092O OI SSHDTASK SSH
  N 0000000 SDV27      12290 16:45:50.00 S0078867 00000200   OPS3092O READY
  M 4040000 SDV27      12290 16:46:00.14 S0078913 00000201   AIR010I PFA CHECK PFA_JE
  D                                            635 00000201    WAS UNABLE TO OPEN LOG
  D                                            635 00000201   ERRNO= 00000081 ERRNOJR=
  E                                            635 00000201   FILENAME= /var/pfa/PFA_J
  M 4040000 SDV27      12290 16:46:00.14 S0078913 00000201   AIR010I PFA CHECK PFA_EN
  D                                            636 00000201    WAS UNABLE TO OPEN LOG
  D                                            636 00000201   ERRNO= 00000081 ERRNOJR=
  E                                            636 00000201   FILENAME= /var/pfa/PFA_E
  N 0000000 SDV27      12290 16:46:25.02 S0078990 00000200   OPS1181O OPSIPSOC OPSS (
  NC0000000 SDV27      12290 16:46:25.02 SDV2730  00000205   RSSHB NC
```

# SYSID  [lpar | * | ?]

- Display a particular system's SYSLOG
  - ➔ SYSID  DV28

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 ---------------------------------------------------------------------
   SDSF SYSLOG  78865.106 DV28 DV27 10/16/2012 6W        112,065 COLUMNS 02- 81
   COMMAND INPUT ===>                                    SCROLL ===> CSR
 M 0020000 SDV28      12290 16:45:31.17 S0078915 00000201  IEC205I SYS10649,DFSMSHS
 E                                            626 00000201  DSN=DVPR9.BACKTAPE.DATAS
 N 0000000 SDV28      12290 16:45:31.17 27        00000201  IEA989I SLIP TRAP ID=X33
 N 0000000 SDV28      12290 16:45:31.17 27        00000201  IEA989I SLIP TRAP ID=X33
 N 0000000 SDV28      12290 16:45:31.17 27        00000201  IEA989I SLIP TRAP ID=X33
 N 2000000 SDV28      12290 16:45:31.42 S0078915 00000010  TMS014   IEF234E K 07ED,D
 N 2000000 SDV28      12290 16:45:31.42 S0078915 00080214  IEF234E K 07ED,DW2863,PV
 N 0000000 SDV28      12290 16:45:49.98 S0078867 00000200  OPS3724O TSO TOD.SSHDCHE
 N 0000000 SDV28      12290 16:45:49.98 S0078867 00000200  OPS3092O OI SSHDTASK SSH
 N 0000000 SDV28      12290 16:45:50.00 S0078867 00000200  OPS3092O READY
 M 4040000 SDV28      12290 16:46:00.14 S0078913 00000201  AIR010I PFA CHECK PFA_JE
 D                                            635 00000201   WAS UNABLE TO OPEN LOG
 D                                            635 00000201  ERRNO= 00000081 ERRNOJR=
 E                                            635 00000201  FILENAME= /var/pfa/PFA_J
 M 4040000 SDV28      12290 16:46:00.14 S0078913 00000201  AIR010I PFA CHECK PFA_EN
 D                                            636 00000201   WAS UNABLE TO OPEN LOG
 D                                            636 00000201  ERRNO= 00000081 ERRNOJR=
 E                                            636 00000201  FILENAME= /var/pfa/PFA_E
 N 0000000 SDV28      12290 16:46:25.02 S0078990 00000200  OPS1181O OPSIPSOC OPSS (
 NC0000000 SDV28      12290 16:46:25.02 SDV2730  00000205  RSSHB NC
```

# ACTION [ALL | <u>OFF</u> | ?]

- Remove WTORs from the OPERLOG and the SYSLOG
  - ➔ ACTION

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------
  SDSF SYSLOG  78865.106 DV27 DV27 10/16/2012 6W        112,065 COLUMNS 02- 81
  COMMAND INPUT ===>                                    SCROLL ===> CSR
M 0020000 SDV27     12290 16:45:31.17 S0078915 00000201  IEC205I SYS10649,DFSMSHS
E                                         626 00000201  DSN=DVPR9.BACKTAPE.DATAS
N 0000000 SDV27     12290 16:45:31.17 27       00000201  IEA989I SLIP TRAP ID=X33
N 0000000 SDV27     12290 16:45:31.17 27       00000201  IEA989I SLIP TRAP ID=X33
N 0000000 SDV27     12290 16:45:31.17 27       00000201  IEA989I SLIP TRAP ID=X33
N 2000000 SDV27     12290 16:45:31.42 S0078915 00000010  TMS014   IEF234E K 07ED,D
N 2000000 SDV27     12290 16:45:31.42 S0078915 00080214  IEF234E K 07ED,DW2863,PV
N 0000000 SDV27     12290 16:45:49.98 S0078867 00000200  OPS3724O TSO TOD.SSHDCHE
N 0000000 SDV27     12290 16:45:49.98 S0078867 00000200  OPS3092O OI SSHDTASK SSH
N 0000000 SDV27     12290 16:45:50.00 S0078867 00000200  OPS3092O READY
M 4040000 SDV27     12290 16:46:00.14 S0078913 00000201  AIR010I PFA CHECK PFA_JE
D                                         635 00000201   WAS UNABLE TO OPEN LOG
D                                         635 00000201  ERRNO= 00000081 ERRNOJR=
E                                         635 00000201  FILENAME= /var/pfa/PFA_J
M 4040000 SDV27     12290 16:46:00.14 S0078913 00000201  AIR010I PFA CHECK PFA_EN
D                                         636 00000201   WAS UNABLE TO OPEN LOG
D                                         636 00000201  ERRNO= 00000081 ERRNOJR=
E                                         636 00000201  FILENAME= /var/pfa/PFA_E
N 0000000 SDV27     12290 16:46:25.02 S0078990 00000200  OPS1181O OPSIPSOC OPSS (
********************************* Bottom of Data *********************************
```

# FINDLIM  [##### | ?]

- Increase the maximum number of lines searched by the FIND command to 9,999,999 (default is 9,999)
    - ➔ FINDLIM  9999999 ;  F  FARGO  PREV
- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 --------------------------------------------------------------------------
  SDSF SYSLOG   78865.106 DV27 DV27 10/16/2012 6W         * TOP OF DATA REACHED *
  COMMAND INPUT ===>                                      SCROLL ===> CSR
M 0020000 SDV27       12290 16:45:31.17 S0078915 00000201  IEC205I SYS10649,DFSMSHS
E                                              626 00000201  DSN=DVPR9.BACKTAPE.DATAS
N 0000000 SDV27       12290 16:45:31.17 27        00000201  IEA989I SLIP TRAP ID=X33
N 0000000 SDV27       12290 16:45:31.17 27        00000201  IEA989I SLIP TRAP ID=X33
N 0000000 SDV27       12290 16:45:31.17 27        00000201  IEA989I SLIP TRAP ID=X33
N 2000000 SDV27       12290 16:45:31.42 S0078915 00000010  TMS014   IEF234E K 07ED,D
N 2000000 SDV27       12290 16:45:31.42 S0078915 00080214  IEF234E K 07ED,DW2863,PV
N 0000000 SDV27       12290 16:45:49.98 S0078867 00000200  OPS3724O TSO TOD.SSHDCHE
N 0000000 SDV27       12290 16:45:49.98 S0078867 00000200  OPS3092O OI SSHDTASK SSH
N 0000000 SDV27       12290 16:45:50.00 S0078867 00000200  OPS3092O READY
M 4040000 SDV27       12290 16:46:00.14 S0078913 00000201  AIR010I PFA CHECK PFA_JE
D                                              635 00000201   WAS UNABLE TO OPEN LOG
D                                              635 00000201  ERRNO= 00000081 ERRNOJR=
E                                              635 00000201  FILENAME= /var/pfa/PFA_J
M 4040000 SDV27       12290 16:46:00.14 S0078913 00000201  AIR010I PFA CHECK PFA_EN
D                                              636 00000201   WAS UNABLE TO OPEN LOG
D                                              636 00000201  ERRNO= 00000081 ERRNOJR=
E                                              636 00000201  FILENAME= /var/pfa/PFA_E
N 0000000 SDV27       12290 16:46:25.02 S0078990 00000200  OPS1181O OPSIPSOC OPSS  (
NC0000000 SDV27       12290 16:46:25.02 SDV2730  00000205  RSSHB NC
```

# LOCATE  [hh:mm:ss]  [mm/dd/yyyy]

- Locate messages from one o'clock am today
  - ➔ L  01:00:00

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 ------------------------------------------------------------------------
  SDSF OPERLOG   DATE 10/16/2012     5 WTORS                   COLUMNS 02- 81
  COMMAND INPUT ===>                                          SCROLL ===> CSR_
 NC0000000 SDV27      12290 01:00:00.05 TBI10001 000A0205  *DIS TRACE MONITOR
 N 4200000 SDV27      12290 01:00:00.06 S0079042 000A0214  DFS4445I CMD FROM MCS/E-
 S                                                         VPI1
 MR0000000 SDV27      12290 01:00:00.06 S0079042 00000010  DFS4444I DISPLAY FROM ID
 DR                                         545 00000010       IMS ACTIVE TRACES
 DR                                         545 00000010
 DR                                         545 00000010       MONITOR IS INACTIVE
 ER                                         545 00000010       *2012290/010000*
 N 0020000 SDV27      12290 01:00:00.06 S0078995 00000201  GVB686I  VIPHST02 ACB ST
 S                                                         VALUES
 N 0020000 SDV27      12290 01:00:00.06 S0078995 00000201  GVB105I  VIPHST02 BUFSP=
 N 0020000 SDV28      12290 01:00:00.09 S0078736 00000201  GVB686I  VIPHST04 ACB ST
 S                                                         VALUES
 N 0020000 SDV28      12290 01:00:00.09 S0078736 00000201  GVB105I  VIPHST04 BUFSP=
 N 0200000 SDV27      12290 01:00:00.18 J0080203 00000201  $HASP100 XSSCATBK ON INT
 S                                                         SCHEDTS
 N 0000000 SDV27      12290 01:00:00.34 S0079868 00000201  BMC23101 DC21 Asynchrono
 N 0000000 SDV27      12290 01:00:00.34 S0079868 00000201  BMC23007 DC21 No data to
 N 0000000 SDV27      12290 01:00:00.34 S0079868 00000201  BMC23101 DC21 Asynchrono
 N 0000000 SDV27      12290 01:00:00.34 S0079868 00000201  BMC23007 DC21 No data to
```

# SET DATE [date] [/ | - | .] ?

- Set the date format used with FILTER, LOCATE and PRINT commands
  - ➔ SET DATE ?

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
  ------------------------------------------------------------------------
   SDSF OPERLOG  DATE 10/16/2012                        COLUMNS 02- 81
   COMMAND INPUT ===>                                   SCROLL ===> CSR_
 NC0000000 SDV27     12290 01:00      Set Date Format      S TRACE MONITOR
 N 4200000 SDV27     12290 01:00                           4445I CMD FROM MCS/E-
 S                                 Select the order.       1
 MR0000000 SDV27     12290 01:00   1   1.   mm/dd/yyy      4444I DISPLAY FROM ID
 DR                                    2.   dd/mm/yyy          IMS ACTIVE TRACES
 DR                                    3.   yyyy/mm/d
 DR                                                          MONITOR IS INACTIVE
 ER                                Select the separator.     *2012290/010000*
 N 0020000 SDV27     12290 01:00                           686I  VIPHST02 ACB ST
 S                                 1   1.   /              LUES
 N 0020000 SDV27     12290 01:00       2.   -              105I  VIPHST02 BUFSP=
 N 0020000 SDV28     12290 01:00       3.   .              686I  VIPHST04 ACB ST
 S                                                         LUES
 N 0020000 SDV28     12290 01:00:00.09 S0078736 00000201  GVB105I  VIPHST04 BUFSP=
 N 0200000 SDV27     12290 01:00:00.18 J0080203 00000201  $HASP100 XSSCATBK ON INT
 S                                                         SCHEDTS
 N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23101 DC21 Asynchrono
 N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23007 DC21 No data to
 N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23101 DC21 Asynchrono
 N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23007 DC21 No data to
```

(Set Date Format popup: F1=Help  F12=Cancel)

# FILTER  [col] [=, etc.] [value] | ? | OFF

- Display only messages starting with IEC*
  - ➔ FIL MSGID = IEC*

- Results:

```
    Display  Filter  View  Print  Options  Search  Help
 ------------------------------------------------------------------------
  SDSF OPERLOG  DATE 11/03/2012   48 WTORS    1 FILTER         COLUMNS 02- 81
  COMMAND INPUT ===> _____  SCROLL ===> CSR
 E                                     453 00000201  DSN=PRDOK.R7329.VTS1.G64
 M 0020000 SDV25    12308 04:16:03.36 J0112566 00000201  IEC205I SYSUT2,XDMBMVS2,
 E                                     470 00000201  DSN=PRDOK.R7329.VTS2.G59
 N 0020000 SDV25    12308 04:26:11.16 J0112642 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:26:31.24 J0112643 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:26:36.48 J0112644 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:27:16.85 J0112651 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:27:52.19 J0112659 00000201  IEC130I GRTFILE   DD STAT
 N 2000000 SDV21    12308 04:30:32.87 J0112720 00000000  IECTMS9 0716,541630,XSSI
 N A800000 SDV21    12308 04:30:32.87 J0112720 00400000 *IEC507D E 0716,541630,XS
 M 0020000 SDV21    12308 04:30:33.54 J0112720 00000201  IEC205I ACCDEV,XSSIBMD0,
 E                                     169 00000201  DSN=PRDOG.#LOGREC.TSTPLE
 N 0020000 SDV25    12308 04:37:21.09 J0112754 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:37:21.29 J0112754 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:37:21.46 J0112754 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:37:21.65 J0112754 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:37:21.83 J0112754 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:37:22.01 J0112754 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:37:22.63 J0112754 00000201  IEC130I GRTFILE   DD STAT
 N 0020000 SDV25    12308 04:37:22.80 J0112754 00000201  IEC130I GRTFILE   DD STAT
```

# FILTER ?

- Filter messages using a pop-up panel
  - ➔ FIL ?

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 ----------                                                    ----------
 SDSF OPERI                      Filter         Row 1 to 9 of 25   02- 81
 COMMAND IN   Command ===> _____  ==> CSR
 E                                                                 .VTS1.G64
 M 0020000 S  Type filter criteria.  Type a / in the Column or Oper  XDMBMVS2,
 E            fields for valid values. Press F11/23 to clear all     .VTS2.G59
 N 0020000 S  filter criteria.                                        DD STAT
 N 0020000 S                                                          DD STAT
 N 0020000 S  Filtering is  OFF                                       DD STAT
 N 0020000 S                                                          DD STAT
 N 0020000 S  AND/OR between columns    AND   (AND/OR)                DD STAT
 N 2000000 S  AND/OR within a column    OR    (AND/OR)              1630,XSSI
 N A800000 S                                                       541630,XS
 M 0020000 S  Column            Oper  Value (may include * and %)  XSSIBMD0,
 E            _____   __   _____     EC.TSTPLE
 N 0020000 S  _____   __   _____      DD STAT
 N 0020000 S  _____   __   _____      DD STAT
 N 0020000 S  _____   __   _____      DD STAT
 N 0020000 S  _____   __   _____      DD STAT
 N 0020000 S  _____   __   _____      DD STAT
 N 0020000 S  _____   __   _____      DD STAT
 N 0020000 S  _____   __   _____      DD STAT
 N 0020000 S  _____   __   _____      DD STAT
```

# FILTER – Columns

| Column | Description |
|---|---|
| SYSNAME | MVS system name |
| DATE | Date the message was logged, in character format.  Enter the date as it is displayed |
| TIME | Time the message was logged, in character format.  Enter the time as it is displayed |
| DATETIME | Date and time the message was logged, in date/time format.  This column accepts the date format set with SET DATE.  Use operators with > or < |
| JOBNAME | Originating job name |
| JOBID | Job ID |
| CONSOLE | Console name |
| MSGID | Message ID (first 8-character token of the message text) |
| MSGTEXT | Message text (includes message ID).  Note that because this column includes the message ID, you may want to include a leading generic pattern matching character in your filter command, for example, FIL MSGTEXT EQ *STARTED* |

# PRINT to SYSOUT

- Print to SYSOUT messages from 01:00:00 to 02:00:00
  - ➔ PT  S;  PT  01:00:00  02:00:00;  PT  CLOSE

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 --------------------------------------------------------------------------
  SDSF OPERLOG   DATE 10/16/2012      6 WTORS        PRINT CLOSED  15904 LINE
  COMMAND INPUT ===>                                 SCROLL ===> CSR_
NC0000000 SDV27     12290 01:00:00.05 TBI10001 000A0205  *DIS TRACE MONITOR
N 4200000 SDV27     12290 01:00:00.06 S0079042 000A0214  DFS4445I CMD FROM MCS/E-
S                                                        VPI1
MR0000000 SDV27     12290 01:00:00.06 S0079042 00000010  DFS4444I DISPLAY FROM ID
DR                                    545 00000010           IMS ACTIVE TRACES
DR                                    545 00000010
DR                                    545 00000010          MONITOR IS INACTIVE
ER                                    545 00000010          *2012290/010000*
N 0020000 SDV27     12290 01:00:00.06 S0078995 00000201  GVB686I  VIPHST02 ACB ST
S                                                        VALUES
N 0020000 SDV27     12290 01:00:00.06 S0078995 00000201  GVB105I  VIPHST02 BUFSP=
N 0020000 SDV28     12290 01:00:00.09 S0078736 00000201  GVB686I  VIPHST04 ACB ST
S                                                        VALUES
N 0020000 SDV28     12290 01:00:00.09 S0078736 00000201  GVB105I  VIPHST04 BUFSP=
N 0200000 SDV27     12290 01:00:00.18 J0080203 00000201  $HASP100 XSSCATBK ON INT
S                                                        SCHEDTS
N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23101 DC21 Asynchrono
N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23007 DC21 No data to
N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23101 DC21 Asynchrono
N 0000000 SDV27     12290 01:00:00.34 S0079868 00000201  BMC23007 DC21 No data to
```

# PRINT to Data Set

- Print to data set messages from 01:00:00 to 02:00:00
  - ➔ PT D; PT 01:00:00 02:00:00; PT CLOSE

- Results:

```
                              SDSF Open Print Data Set
COMMAND INPUT ===> _____    SCROLL ===> CSR_


Data set name  ===> 'R2221.RPT'
Member to use  ===>
Disposition    ===> NEW            (OLD, NEW, SHR, MOD)

If the data set is to be created, specify the following.
Volume serial will be used to locate existing data sets if specified.

Management class      ===>          (Blank for default management class)
Storage class         ===>          (Blank for default storage class)
  Volume serial       ===>          (Blank for authorized default volume)
  Device type         ===>          (Generic unit or device address)
Data class            ===>          (Blank for default data class)
  Space units         ===> BLKS     (BLKS, TRKS, CYLS, BY, KB, or MB)
  Primary quantity    ===> 500      (In above units)
  Secondary quantity  ===> 500      (In above units)
  Directory blocks    ===>          (Zero for sequential data set)
  Record format       ===> VBA
  Record length       ===> 240
  Block size          ===> 3120
```

- Allows typing in a long MVS command and retrieve/execute a previous MVS command
  - ➔ /
- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 ---                                                                ----
 SDS                      System Command Extension                   31
 COM                                                                  R_
 NC00   Type or complete typing a system command, then press Enter.
 N 42                                                                S/E-
 S
 MR00   ===>                                                         M ID
 DR     ===> _____  S
 DR
 DR     Place the cursor on a command and press Enter to retrieve it.
 ER                                                        More:    +  TIVE
 N 00   =>  D GRS,AN,DEP                                              3 ST
 S      =>  RO *ALL,D U,TAPE,ALLOC
 N 00.  =>  D SYMBOLS                                                FSP=
 N 00.  =>  @DISPLAY GLOBALUNITS                                     3 ST
 S      =>  D U,,,0117,1
 N 00.  =>  D U,,,0116,1                                             FSP=
 N 02   =>  D U,0116,1                                                INT
 S
 N 00      Wait 1 second to display responses (specify with SET DELAY) ono
 N 00      Do not save commands for the next SDSF session             a to
 N 00                                                                 ono
 N 00   F1=Help  F5=FullScr  F7=Backward F8=Forward  F11=ClearLst  F12=Cancel a to
```

# / [command] +

- When typing in a long MVS command on the primary command line and run out of room, append a plus sign (+) to display the pop-up panel
  - ➔ /SETPROG APF,ADD,DSN=SYS1.TEST.LINKLIB+
- Results:

```
      Display   Filter   View   Print   Options   Search   Help
   ---                                                            ----
   SDS                       System Command Extension              31
   COM                                                             R_
   NC00    Type or complete typing a system command, then press Enter.
   N 42                                                           S/E-
   S
   MR00    ===> SETPROG APF,ADD,DSN=SYS1.TEST.LINKLIB_____  M ID
   DR      ===>  _____   ES
   DR
   DR      Place the cursor on a command and press Enter to retrieve it.
   ER                                                   More:    +  TIVE
   N 00    =>  D GRS,AN,DEP                                         ST
   S       =>  RO *ALL,D U,TAPE,ALLOC                             B
   N 00    =>  D SYMBOLS                                           FSP=
   N 00    =>  @DISPLAY GLOBALUNITS                              B ST
   S       =>  D U,,,0117,1
   N 00    =>  D U,,,0116,1                                        FSP=
   N 02    =>  D U,0116,1                                          INT
   S
   N 00       Wait 1 second to display responses (specify with SET DELAY)  rono
   N 00       Do not save commands for the next SDSF session              a to
   N 00                                                                    rono
   N 00    F1=Help  F5=FullScr  F7=Backward F8=Forward  F11=ClearLst  F12=Cancel  a to
```

# SET DELAY [0-9999 | ?]

- Specify the maximum time SDSF will wait for a response to a / command in seconds. The default is 0 (do not wait)
  - ➔ SET DELAY 2
- Results:

```
  Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------------
  SDSF OPERLOG  DATE 10/21/2012     6 WTORS           SET COMMAND COMPLETE
  COMMAND INPUT ===> _____   SCROLL ===> CSR
 E                                     424 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.07 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                     425 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.09 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                     426 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.10 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                     427 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.11 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                     428 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.12 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                     429 00000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.24 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                     849 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.26 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                     850 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.27 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                     851 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.28 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                     852 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.30 S0085577 40000010  ING819I BCPII ROUTE NVS2
```

# SET CONSOLE [name | ?]

- Change the console name to R2221A to allow messages to be received from commands when multiple SDSFs are active
    - ➔ SET CONSOLE R2221A
- Results:

```
    Display  Filter  View  Print  Options  Search  Help
 --------------------------------------------------------------------------
  SDSF OPERLOG   DATE 10/21/2012      6 WTORS          SET COMMAND COMPLETE
  COMMAND INPUT ===>                                        SCROLL ===> CSR
 E                                       424 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.07 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                       425 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.09 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                       426 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.10 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                       427 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.11 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                       428 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27    12295 15:02:55.12 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                       429 00000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.24 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                       849 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.26 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                       850 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.27 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                       851 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.28 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                       852 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28    12295 15:02:55.30 S0085577 40000010  ING819I BCPII ROUTE NVS2
```

# SET CONMOD [ON | OFF | ?]

- Change the console name automatically, when already in use. SDSF adds $, #, @, 1, 2, 3, 4 or 5 to the console name

  ➔ SET CONMOD

- Results:

```
   Display  Filter  View  Print  Options  Search  Help
 -------------------------------------------------------------------------
 SDSF OPERLOG   DATE 10/21/2012      6 WTORS          SET COMMAND COMPLETE
 COMMAND INPUT ===> _____ SCROLL ===> CSR
 E                                      424 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27     12295 15:02:55.07 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                      425 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27     12295 15:02:55.09 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                      426 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27     12295 15:02:55.10 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                      427 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27     12295 15:02:55.11 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                      428 00000010    CONNECTED LASTS(1210202
 M 8000000 SDV27     12295 15:02:55.12 S0085699 00000010  ING819I BCPII ROUTE NVS2
 E                                      429 00000010    CONNECTED LASTS(1210202
 M 4000000 SDV28     12295 15:02:55.24 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                      849 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28     12295 15:02:55.26 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                      850 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28     12295 15:02:55.27 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                      851 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28     12295 15:02:55.28 S0085577 40000010  ING819I BCPII ROUTE NVS2
 E                                      852 40000010    CONNECTED LASTS(1210202
 M 4000000 SDV28     12295 15:02:55.30 S0085577 40000010  ING819I BCPII ROUTE NVS2
```

# Batch

# Status of Jobs (📎)

- Print status of @SSTEST* jobs

- Code:

```
//SDSF      EXEC PGM=SDSF              <== ALSO, CAN USE PGM=ISFAFD
//ISFOUT    DD  SYSOUT=*
//ISFIN     DD  *
  OWNER *
  PREFIX @SSTEST*
  ST
```

# Status of Jobs – JESMGSLG (📎)

- Print PDSMAN started task JESMSGLG

- Code:

```
//SDSF      EXEC PGM=SDSF
//ISFOUT   DD  SYSOUT=*
//FILEOUT  DD  SYSOUT=*
//*FILEOUT DD  DSN=DATA.SET.NAME,
//*            DISP=(,CATLG,DELETE),
//*            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=0),
//*            SPACE=(CYL,(5,5),RLSE),UNIT=SYSDA
//ISFIN    DD  *
  ST
  S PDSMAN
  FIND PDSMAN
  ++?
  FIND JESMSGLG
  ++S
  PRINT FILE FILEOUT
  PRINT
  PRINT CLOSE
```

# LOG (📎)

- Print OPERLOG messages from 01:00:00 to 02:00:00

- Code:

```
//SDSF      EXEC PGM=SDSF
//ISFOUT    DD  SYSOUT=*
//LOGOUT    DD  SYSOUT=*
//*LOGOUT   DD  DSN=DATA.SET.NAME,
//*             DISP=(,CATLG,DELETE),
//*             DCB=(RECFM=FBA,LRECL=133,BLKSIZE=0),
//*             SPACE=(CYL,(5,5),RLSE),UNIT=SYSDA
//ISFIN     DD  *
  LOG
  PRINT FILE LOGOUT
  PRINT 01:00:00 02:00:00
  PRINT CLOSE
```

# ULOG (📎)

- Execute MVS command and print ULOG

- Code:

```
//SDSF      EXEC PGM=SDSF
//ISFOUT    DD   SYSOUT=*
//CMDOUT    DD   SYSOUT=*
//ISFIN     DD   *
  SET CONSOLE BATCH
  SET DELAY 600
  ULOG
  /D A,L
  PRINT FILE CMDOUT
  PRINT
  PRINT CLOSE
```

# REXX

# REXXHELP

- Display help on using REXX with SDSF
  - ➔ REXXH

- Results:

```
-                                Using REXX with SDSF
S
C
P
N     Tab to a topic and press F1, or press Enter to view the topics in order.

      o    Introduction                              - Search - Index -
      o    Programming practices
      o    Quick start
      o    Add the SDSF host command environment
      o    Issue SDSF commands
           - Commands for tabular panels (ISFEXEC)
           - Log panels (ISFLOG and ISFULOG)
           - Slash (/) commands (ISFSLASH)
           - Other commands (ISFEXEC)
           - Filter commands (special variables)
           - Options commands (special variables)
      o    Take actions and modify columns on SDSF panels
      o    Browse output and Print output
      o    Examples
      o    Diagnose errors in a REXX exec
      o    Special variables
       F1=Help   F5=Exhelp  F7=Up   F8=Down   F10=Back   F12=Cancel
```

# COLSHELP

- Obtain REXX variable names for a specific SDSF panel
  - ➜ COLSH

- Results:

```
                                    Columns on SDSF Panels          Row 76 from 1009
Command ===> _____

Sort with F5 (panel), F6 (column), F10 (title). Use Filter to filter rows.

  _   All panels        _   Descriptions

  Panel       Column        Title                    Delayed?  Overtype?
_ DA          JNAME         JOBNAME
_ DA          STEPN         StepName
_ DA          PROCS         ProcStep
_ DA          JTYPE         Type
_ DA          JNUM          JNum
_ DA          JOBID         JobID
_ DA          OWNERID       Owner
_ DA          JCLASS        C
_ DA          POS           Pos
_ DA          DP            DP
_ DA          REAL          Real
_ DA          PAGING        Paging
_ DA          EXCPRT        SIO
_ DA          CPUPR         CPU%
```

# ULOG – Execute MVS Command (📎)

- Execute an MVS command and display the results

- Code:

```
/*%NOCOMMENT===================* REXX *==============================*/
/*  PURPOSE:  Execute MVS command (D A,L) and display output          */
/*====================================================================*/

 RC          = ISFCALLS("ON")                /* Access  = ON          */
 ISFCONS     = "SDSF"RANDOM()                /* CONSOLE = SDSF###      */
 ADDRESS SDSF "ISFEXEC  '/D A,L' (wait"      /* Execute MVS command    */
 RC          = ISFCALLS("OFF")               /* Access  = OFF          */

 DO J = 1 TO ISFULOG.0                       /* Loop through ULOG      */
    SAY STRIP(ISFULOG.J)                     /* Display output         */
 END
```

# DA ALL – Job Name and Lpar (📎)

- Obtain and display all active PDSMAN started tasks and lpar names

- Code:

```
/*%NOCOMMENT===================* REXX *============================*/
/*  PURPOSE:  Display PDSMAN Started Tasks and Lpar Names          */
/*================================================================*/

 RC          = ISFCALLS("ON")              /* Access  = ON         */
 ISFPREFIX  = "PDSM*"                       /* PREFIX  = PDSM*      */
 ISFSYSNAME = "*"                           /* SYSNAME = *          */
 ISFOWNER   = "*"                           /* OWNER   = *          */
 ADDRESS SDSF "ISFEXEC DA ALL"              /* Execute SDSF 'DA ALL' */
 RC          = ISFCALLS("OFF")             /* Access  = OFF        */

 DO K = 1 TO ISFROWS                        /* Loop thru rows       */
    SAY "JOB NAME = "JNAME.K                 /* Display JOBNAME      */
    SAY "    LPAR = "SYSNAME.K               /* Display SYSNAME      */
 END
```

# DA ALL – Obtain STC File (📎)

- Obtain and display the JESMSGLG of the started task CICSU2A7

- Code:

```
/*%NOCOMMENT====================* REXX *=============================*/
/*  PURPOSE:  Obtain and display JESMSGLG the started task CICSU2A7  */
/*=================================================================*/

ADDRESS TSO
  "ALLOC F(FILEOUT) UNIT(VIO) NEW REUSE",       /* Output file       */
         "CYLINDERS SPACE(5 5) RECFM(F B A)"

  "ALLOC FI(ISFOUT) DUMMY"                       /* Delete screen prts  */

  "ALLOC F(ISFIN) UNIT(VIO) NEW REUSE",          /* Input parameters   */
         "RECFM(F B) BLK(3120) LRECL(80)",
         "SPACE(1 1) CYLINDERS DSORG(PS)"

  QUEUE " DA ALL"                                /* Display active jobs */
  QUEUE " OWNER"                                 /* OWNER   = *        */
  QUEUE " SYSNAME *"                             /* SYSNAME = *        */
  QUEUE " PRE CICSU2A7"                          /* PREFIX  = CICSU2A7 */
  QUEUE " FIND CICSU2A7"                         /* Cursor to CICSU2A7 */
  QUEUE " ++?"                                   /* Type ? next to job */
  QUEUE " FIND JESMSGLG"                         /* Cursor to JESMSGLG */
  QUEUE " ++S"                                   /* Select JESMSGLG    */
```

# DA ALL – Obtain STC File (Continued)

- Obtain and display JESMSGLG of the started task CICSU2A7

- Code:

```
   QUEUE " PRINT FILE FILEOUT"                    /* Open FILEOUT      */
   QUEUE " PRINT"                                 /* Print to FILEOUT  */
   QUEUE " PRINT CLOSE"                           /* Close FILEOUT     */
   QUEUE ""                                       /* End input records */
   "EXECIO * DISKW ISFIN (FINIS"                  /* Write input records */

ADDRESS ISPEXEC
   "SELECT PGM(SDSF)"                             /* Execute SDSF      */

ADDRESS TSO
   "EXECIO * DISKR FILEOUT (STEM REC. FINIS"      /* Read FILEOUT      */
   "FREE FI(ISFIN ISFOUT FILEOUT)"                /* Free all files    */

   DO J = 1 TO REC.0                              /* Loop thru records */
      SAY STRIP(REC.J)                            /* Display records   */
   END
```

# Links

# Manuals – SDSF

| Version | Manual | Link |
|---|---|---|
| Website | N/A | SDSF – Downloads |
| Summary Card | N/A | SDSF – Summary Card |
| Red Manual | SG24-7419-00 | SDSF – Implementing REXX Support |
| V2R01 | SA23-2274-00 | SDSF – Operation and Customization |
| V1R13 | SA22-7670-15 | SDSF – Operation and Customization |
| V1R12 | SA22-7670-14 | SDSF – Operation and Customization |
| V1R11 | SA22-7670-12 | SDSF – Operation and Customization |
| V1R10 | SA22-7670-11 | SDSF – Operation and Customization |
| V1R09 | SA22-7670-10 | SDSF – Operation and Customization |
| V1R08 | SA22-7670-09 | SDSF – Operation and Customization |
| V1R07 | SA22-7670-08 | SDSF – Operation and Customization |
| V1R06 & V1R05 | SA22-7670-07 | SDSF – Operation and Customization |
| V1R04 | SA22-7670-04 | SDSF – Operation and Customization |
| V1R03 | SA22-7670-02 | SDSF – Operation and Customization |
| V1R02 | SA22-7670-01 | SDSF – Operation and Customization |

# Manuals – REXX

| Version | Manual | Link |
|---------|--------|------|
| V2R01 | SA32-0972-00 | REXX – Reference |
| V2R01 | SA32-0982-00 | REXX – User's Guide |
| V2R01 | SA23-2283-00 | REXX – UNIX System Services |
| V2R01 | SH19-8160-06 | REXX – Compiler/Library – User's Guide and Reference |
| V2R01 | SH19-8179-03 | REXX – Compiler/Library – Diagnosis Guide |

# SHARE – SDSF

| Session | Author | Link |
|---|---|---|
| 15042 | Chip Wood | SDSF for New Users Hands-on Lab |
| 14920 | Chip Wood | SDSF Product Update for z/OS 2.1 |
| 14768 | Chip Wood | SDSF Hidden Treasures |
| 11701 | Chip Wood | Accessing SDSF data using REXX and JAVA |
| 10644 | Chip Wood | What's new in SDSF z/OS V1.13? |
| 8919 | Chip Wood | SDSF: What's New in z/OS 1.12? |
| 2677 | Dave Danner | z/OS 1.9 JES2 and SDSF: User Experiences With Migration and Using the New Features |
| 2672 | Tom Wasik | SDSF for Intermediate Users |
| 2671 | Bill Keller | SDSF Changes for z/OS V1R7 |
| 2664 | Chip Wood | SDSF REXX |
| 2663 | Chip Wood | What's new in SDSF z/OS V1.10? |
| 2655 | Chip Wood | SDSF z/OS V1.9 Preview |
| 2343 | Chip Wood | SDSF for New Users |
| 2341 | Rod Freak | SDSF REXX in a Production Environment – User Experience |

# SHARE – REXX

| Session | Author | Link |
|---------|--------|------|
| 16722 | Liam Doherty | Using REXX for IBM Mainframe Application Development |
| 16691 | Tracy Dean | REXX Language Coding Techniques |
| 16616 | Bruce Schaefev | RACF and REXX - A Marriage Made in Heaven! |
| 16474 | John Franciscovich | Introduction to REXX Workshop |
| 15229 | Barry Lichtenstein | An Introduction to Using REXX with Language Environment |
| 14019 | Brian Marshall | REXX programming for the z/OS programmer |
| 11751 | Thomas Conley | Rexx Power Tools – The PARSE Command |
| 11701 | Chip Wood | Accessing SDSF Data from Rexx and Java |
| 10425 | Eric Rosenfeld | Analyzing Your RACF Database Using REXX |
| 7485 | Thomas Conley | Learn to Program in Rexx – Hands-on Lab |
| 5490 | Mike Onghena | RACF's R_admin Interface: Now Served with REXX! |
| 2344 | Chip Wood | SDSF Rexx API Usage Tutorial |
| 2341 | Rod Feak | SDSF Rexx in a Production Environment – User Experience |
| 1579 | David Ashley | Using Rexx Complier Hands-on Lab |
| 1569 | Ahilan Rajadeva | Rexx and z/OS UNIX Services |

# Websites (📎)

| Link |
|------|
| ABCs of Systems Programming |
| Andy's MVS Page |
| Cardett Associates – Database Query Tools |
| CBT Tape |
| DFSORT – Documentation and Code |
| GSF Software – Downloads |
| ISPF – Manuals and Tools |
| ISPF – Request For Enhancement (RFE) |
| Kenneth Tomiak – Stuff |
| Ken's Universe |
| Leonard Woren – Free Stuff |
| Lionel B. Dyck – Freeware |
| Mark's MVS Utilities |
| Michael Joseph Clearly – Freeware |

# Websites (📎)

| Link |
| --- |
| Parallel Sysplex – Tools and Wizards |
| PDS2PDS – PDS Comparison |
| Planet MVS |
| Redbooks – PDFs and Code |
| Review – Browser and Editor |
| REXX – Language Association |
| Schlabb – REXX, TCPIP, etc. |
| SDSF – Home Page |
| SDSF – MODEL Examples |
| SDSF – REXX Examples |
| SHARE – Conference Proceedings |
| Simo Time Enterprises – Programming Code Examples |
| TASID – Downloads |
| VM – Download Packages |

# Websites (📎)

| Link |
|------|
| Watson & Walker – Tuning Letter |
| WLM – Downloads |
| ZOS – V1R13 – PDF Manuals |
| ZOS – V2R01 – PDF Manuals |

*Any questions or comments please contact*

*Bruce Koss*

*Wells Fargo Mainframe Operating Systems Support*

*Bruce.Koss@WellsFargo.com*

*(704) 600-8416*