z/OS 2.4 IBM Education Assistant (IEA)

Solution (Epic) Name: SDSF

Element(s)/Component(s): SDSF







Agenda

- Trademarks
- Session Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Migration & Coexistence Considerations
- Installation
- Session Summary
- Appendix

Trademarks

• See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.

- Additional Trademarks:
 - None.

Session Objectives

- New tabular panels in SDSF V2R4 (16!!)
- Usability enhancements in SDSF V2R4
- z/OSMF SDSF plug-in usability enhancements
- Installation and Configuration
- Documentation and Help

Overview

- Who (Audience)
 - System programmers, operators, administrators, general users
- What (Solution)
 - Systems management
- Wow (Benefit / Value, Need Addressed)
 - Simplify management of the system
 - Improve user experience

Usage & Invocation

- Several ways to invoke SDSF
 - ISPF dialog
 - TSO command
 - SDSF batch (no longer being enhanced, use REXX instead)
 - SDSF/REXX (including sysrexx)
 - SDSF/Java
 - z/OSMF SDSF plug-in

SDSF New Tabular Panels

New primary and secondary tabular displays

New Tabular Panels

- EMCS Extended Consoles
- OMVS USS options
- LPD Link Pack Directory
- XCFM Members and Groups
- JES JES subsystems
- RMA Resource monitor alerts
- ENQD Enq by data set name

- WLM WLM policy information
- SRVC WLM service classes
- REPC WLM report classes
- RGRP WLM resource groups
- WKLD WLM workloads

New Secondary Panels

- Job memory objects (secondary from DA and AS)
- Job DD names (secondary from DA, AS, I, ST, NS, and INIT)
- Job class members (secondary from JC)
- JES checkpoint information (secondary from JES)

EMCS Panel

- Shows all extended consoles in the sysplex
 - Sysplex wide SYSNAME pattern does not apply
- Actions available: display, display long, reset force, remove
- Overtypes available: Auth, IntIDs, UnknIDs, Mscope, RoutCde

```
<u>Display Filter View Print Options Search Help</u>
SDSF EMCS DISPLAY RS86
                                                         LINE 33-39 (39)
COMMAND INPUT ===>
                                                                 SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=*
                                 SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DL-DisplayLong,
ACTION=E-ResetForce, P-Remove
     NAME
              Status
                                 JobName
                                           JobID
                                                    QDepth QLimit QAlert% DSPSize
                        Kev
     *AXT0486 ACTIVE
                        SYSREXX
                                 AXR04
                                           STC01368
                                                            10000
                                                                       100
                                                                                54
                                                         0
     *DICNS86 ACTIVE
                                                            10000
                                                                       100
                                                                               774
                        NONE
     *OPLOG86 ACTIVE
                        OPERLOG
                                                            50000
                                                                       100
                                                                               774
     *ROUTE86 ACTIVE
                        MVSROUTE
                                                               2B
                                                                       100
                                                                               774
     *SYSLG86 ACTIVE
                        SYSLOG
                                                             50000
                                                                       100
                                                                               774
     ROOT
              INACTIVE SDSF
     R586
                                                            10000
                                                                               774
              ACTIVE
                        SYSCONS
```

EMCS Panel Columns

```
Show Columns
                                                           Row 1 to 22 of 27
Command ===> ____
Sort column with F5. Use Locate to position to column.
  All values
                       Column width
Column
                        Value
                        *AXROA86
NAME
                    01 ACTIVE
Status
                    01
                        SYSREXX
Key
QDepth
                    01
QLimit
                    01
                        10000
QAlert%
                    01
                        100
DSPSizeK
                        540
DSPMaxK
                        2097152
ASID
                    01
                        26
ASIDX
                    01
                        001A
TermID
                        AXREMCS
Auth
                        MASTER
Level
ConsID
                        02000013
CmdSys
                        R586
DOM
                        NONE
HC
                        NO
                        NO
                    01
Auto
                        NO
IntIDs
                        NO
UnknIDs
SysCons
```

Tip: Use / action character to display the Show columns pop-up

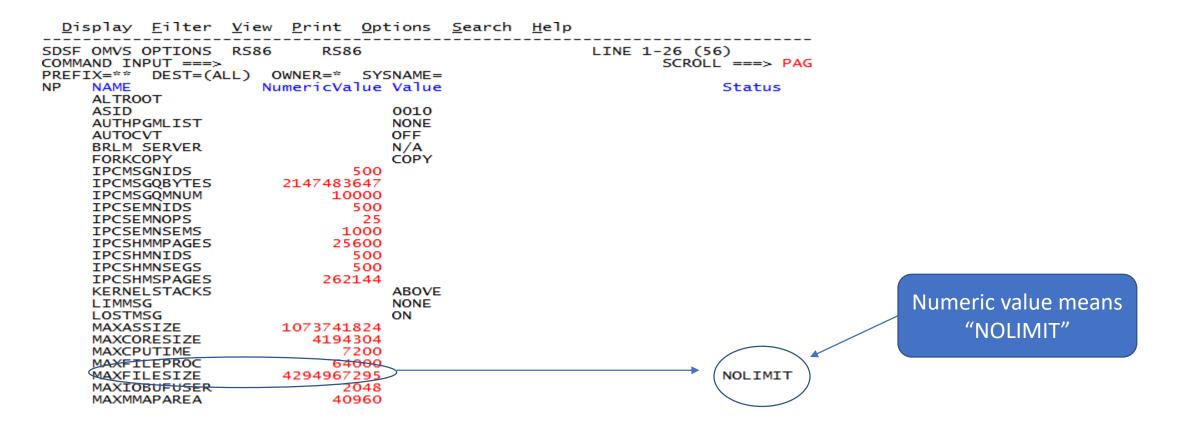
Show Columns Row 23 to 27 of 27 Sort column with F5. Use Locate to position to column. _ All values Column width Column ## Value MScope Property MScope Propert 01 *ALL RoutCde NONE RoutCdeX 01 RS86 SysName 01 z/OS 02.04.00 HBB77C0 SvsLevel ************************ Bottom of data ******************

OMVS Options Panel

- Shows Unix System Services (USS) options in effect
 - Access with the BPXO command
 - Conflict with OMVS command which means O panel classes MVS
- Use SYSNAME pattern to limit rows
- Actions available: display OMVS options, set nolimit
- Overtypes available: any numeric property

```
<u>D</u>isplay <u>F</u>ilter <u>V</u>iew <u>P</u>rint <u>O</u>ptions <u>S</u>earch <u>H</u>elp
                                (ALL)
                                                              LINE 5-29 (56)
SDSF OMVS OPTIONS
COMMAND INPUT ===>
                                                                       SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,DO-DisplayOMVS,N-NoLimit
                         NumericValue Value
                                                                                        RS
     BRLM SERVER
                                        COPY
     FORKCOPY
     IPCMSGNIDS
     IPCMSGQBYTES
                           2147483647
```

OMVS Panel Properties



OMVS Panel Properties ...

```
Display Filter View Print Options Search Help
SDSF OMVS OPTIONS RS86
                             R586
                                                         LINE 27-52 (56)
COMMAND INPUT ===>
                                                                SCROLL ===>
PREFIX=** DEST=(ALL)
                       OWNER=* SYSNAME=
     NAME
                      NumericValue Value
                                                                      Status
     MAXPIPEUSER
                               8730
     MAXPROCSYS
                                400
     MAXPROCUSER
                                150
     MAXPTYS
                                256
     MAXQUEUEDSIGS
                               1000
     MAXSHAREPAGES
                             131072
     MAXTHREADS
                              10000
     MAXTHREADTASKS
                               5000
                                200
     MAXUIDS
     MAXUSERMOUNTSYS
                                  O
     MAXUSERMOUNTUSER
     NONEMPTYMOUNTPT
                                    WARN
     PARMLIB
                                    OMVS=(RS)
     PROCNAME
                                    OMV5
     PWT
                                    ENV
                                    RESOLVER
     RESOLVER PROC
     SC_EXITTABLE
     SERV_LINKLIB
     SERV_LPALIB
     SHRLIBMAXPAGES
                               4096
     SHRLIBRGNSIZE
                           67108864
     STEPLIBLIST
     SUPERUSER
                                    OMVSKERN
     5WA
                                    BELOW
     SYSCALL COUNTS
                                    NO
                                    YES
     SYSPLEX
```

OMVS Panel Properties ...

```
Display Filter View Print Options Search Help
SDSF OMVS OPTIONS RS86
                           R586
                                                      LINE 53-56 (56)
COMMAND INPUT ===>
                                                            SCROLL ===>
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
    NAME
                     NumericValue Value
                                                                  Status
                                  TTY
     TTYGROUP
                                  NONE
     UMASK
     USERIDALIASTABLE
                                  RP204B,N
     VERSION
```

Link Pack Directory (LPD) Panel

- Shows details of modules in the link pack area
- Use SYSNAME pattern to limit rows

```
Display Filter View Print Options Search Help
                           (ALL)
                                                       LINE 322-346 (2329)
SDSF LPD DISPLAY RS86
COMMAND INPUT ===>
                                                              SCROLL ===> HALF
                       OWNER=* SYSNAME=*
PREFIX=** DEST=(ALL)
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat
     MODNAME Major
                                         LoadPt
                                                           Location
                                                                            Mod
     COFMSRB1
                       0000000_06BC46B0 00000000_06BC46B0 EXTENDED-PLPA
                                                                            000
                       00000000_1056B000 00000000_1056B000 EXTENDED-CSA
     CSFINLPA
                                                                            000
     CSFINLP2
                       00000000_00C28690 00000000_00C28690 C5A
                                                                            000
     CSFMGARC
                       00000000_1194B4F0 00000000_1194B4F0 EXTENDED-CSA
                                                                            000
     CSFMGTRC
                       00000000_11220608 00000000_11220608 EXTENDED-CSA
                                                                            000
     CSFMIQIH
                       00000000_119685F8 00000000_119685F8 EXTENDED-CSA
                                                                            000
     CSRBALUA CSRBBLSR 00000000_03839000
                                                           EXTENDED-PLPA
                                                                            000
```

LPD Panel Columns

```
Show Columns
                                       Row 1 to 14 of 14
Command ===>
Sort column with F5. Use Locate to position to column.
✓ All values
               _ Column width
               ## Value
Column
MODNAME
                01 ACYAPCIP
               01 ACYAPCNP
Major
               01 00000000_03337000
EPĀ
LoadPt
Location
               01 EXTENDED-PLPA
ModLen
               01 00000000
                01 PLPA
Type
AC.
AM
                01 31
APF
                01 YES
Seq
               01 2280
SysName
               01 RS86
SysLeve1
               01 z/OS 02.04.00 HBB77C0
                01 **End of List**
```

XCF Members and Groups (XCFM) Panel

- Lists all XCF members and groups active in the sysplex
 - Sysplex wide SYSNAME pattern does not apply
- Actions available: display, display all, display group

```
Display Filter View Print Options Search Help
SDSF XCF MEMBERS DISPLAY RS86
                                                          LINE 1-24 (96)
COMMAND INPUT ===>
                                                                 SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend, /-Show, //-Block, %-RunExec, =-Repeat, D-Display, DA-DisplayAll,
ACTION=DG-DisplayGroup
     NAME
               Member
                                Status
                                          SysName
                                                   JobName
                                                             Stalled
                                                                         Sends Rece
     COFVLFNO RS86
                                ACTIVE
                                          R586
                                                   VLF
                                                             NO
                                                                             0
     EZBTCPCS RS86TCPIP
                                ACTIVE
                                          R586
                                                   TCPIP
                                                             NO
                                                                             О
              HSF@RS86
                                ACTIVE
                                          R586
                                                   SDSFAUX
     HSFIXC
                                ACTIVE
                                          R586
                                                   CATALOG
     TGG0CA5
              IGGOCAS1RS86
                                                             NO
     IGG0CA5
              IGGOCAS1RS87
                                FAILED
                                          R587
                                                   CATALOG
                                                             NO
     IOEZFS
               R586
                                ACTIVE
                                          R586
                                                   ZF5
                                                             NO
                                          R586
     ISTCFS01 RS86SSCPROCKNET1 ACTIVE
                                                   VTAM
                                                             NO
     ISTXCF
               RS86SSCPROCKNET1 ACTIVE
                                          R586
                                                   VTAM
                                                             NO
     IXCL0002 M693
                                          R586
                                                    GR5
                                ACTIVE
                                                             NO
     MXXDSG2C MXI@RS86
                                          R586
                                                   MXIMAST
                                                             NO
                                ACTIVE
              MSCBUFF$RS85
                                FAILED
                                          R585
                                                    JESXCF
                                                             NO
```

XCFM Columns

```
Show Columns
                                                 Row 1 to 22 of 23
Command ===>
Sort column with F5. Use Locate to position to column.
/ All values
                _ Column width
              ## Value
01 COFVLFNO
01 R586
Column
NAME
Member
Status
               01 ACTIVE
SysName
                 01 RS86
                 01 VLF
JobName
Stalled
                 01 NO
Sends
                 01 2
Receives
                 01 0
                01 Not Specified
Function
CanRecv
                 01 YES
CanReply
                 01 NO
GT61KMsq
                 01 NO
Critical
                 01 NO
                 01 TASK
MemAssoc
TermLevel
                 01 TASK
Interval
                 01 0
        01 03/04/2019 10:48:13.031338
StatusDate
JoinedDate
DeactDate
UserData
UserState
```

JES Subsystems Panel

- Lists all known JES2 and JES3 subsystems in the sysplex
 - Use SYSNAME pattern to limit rows
- Actions available: display, display checkpoint

```
Display Filter View Print Options Search Help
SDSF JES DISPLAY RS86
                           (ALL)
                                                       LINE 1-2 (2)
                                                              SCROLL ===> HALF
COMMAND INPUT ===>
PREFIX=** DEST=(ALL) OWNER=*
                                SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,JC-CheckPoint
                                Emergency ComChar Global
     NAME Type Primary Member
                                                            OwnNode
     JES2 JES2 YES
                       R586
                                HASP.
                                                                     RSPLEXOG A
                                                   NO
     JES2 JES2 YES
                       R588
                                HASP
                                                                     RSPLEXOG A
```

JES Subsystems Columns

```
Show Columns
                                                Row 1 to 16 of 16
Command ===>
Sort column with F5. Use Locate to position to column.
∠ All values
                Column width
Column
                ## Value
NAME
                01 JES2
                01 JES2
Type
Primary
                01 YES
Member
                01 RS86
Emergency
                01 HASP
ComChar
                01 $
Global
                01 NO
OwnNode
                01
                   N1
XCFGroup
                01 RSPLEXOG
Status
                01 ACTIVE
Service
                01 0
                01 z/05 2.4
Version
SSCT
                01
                   00C29670
SysName
                01
                   R586
SysLeve1
                01 z/05 02.04.00 HBB77C0
                01 **End of List**
```

Resource Monitor Alerts (RMA) Panel

- Shows outstanding JES2 alerts, notices, and track messages
 - Use SYSNAME pattern to limit rows
- Actions available: monitor, monitor details, monitor history, monitor state, monitor status

```
Display Filter View Print Options Search Help
                                                       LINE 1-4 (4)
SDSF RESOURCE ALERTS (ALL)
COMMAND INPUT ===>
                                                               SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend, /-Show, //-Block, %-RunExec, =-Repeat, J-Monitor, JD-MonitorDetails,
ACTION=JH-MonitorHistory, JJ-MonitorState, JS-MonitorStatus
             Member
     TYPE
                      MessageLine1
     NOTICE
             R586
                      $HASP9250 RESOURCE JOES UTILIZATION IS AT
                                                                   6.72%
             R586
                      $HASP9250 RESOURCE JQES UTILIZATION IS AT
                                                                   5.66%
             R588
                      $HASP9250 RESOURCE JOES UTILIZATION IS AT
                                                                   6.72%
             R588
                      $HASP9250 RESOURCE JQES UTILIZATION IS AT
                                                                   5.66%
```

Resource Monitor Alerts Columns

```
Show Columns
                                                    Row 1 to 12 of 12
Command ===>
Sort column with F5. Use Locate to position to column.
                  _ Column width
/ All values
Column
                     Value
TYPE
                 01 NOTICE
Member
                  01 RS86
MessageLine1
                     $HASP9250 RESOURCE JOES UTILIZATION IS AT 12.61%
MessageLine2
MessageLine3
                  01
MessageLine4
                  01
MessageTime
Critical
JESN
                  01 JES2
SysName
                 01 RS86
SysLeve1
                 01 z/05 02.04.00 HBB77C0
                    **End of List**
***************************
```

ENQ by Data Sets (ENQD) Panel

- Shows all enqueues for a data set on all systems in the sysplex
 - Variant of the ENQ panel
 - Equivalent to ENQ SYSDSN * followed by FILTER for data set name
- Actions available: display

```
<u>Display Filter View Print Options Search Help</u>
                                                         LINE 1-8 (8)
SDSF ENQ DISPLAY RS86
                            DATASET TS5485*
COMMAND INPUT ===>
                                                                SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend, /-Show, //-Block, %-RunExec, =-Repeat, D-Display
     MINOR
                                                            Major
                                                                      Req JobName
     TS5485.RS86.ISPPROF
                                                            SYSDSN
                                                                      SHR TS5485
     TS5485.RS86.SPFTEMP1.CNTL
                                                            SYSDSN
                                                                      EXC TS5485
     TS5485.RS86.SPFTEMP2.WORK
                                                            SYSDSN
                                                                      EXC TS5485
     TS5485.RS86.SPFTEMP1.LIST
                                                            SYSDSN
                                                                      EXC TS5485
     TS5485.RS86.SPFTEMPO.CNTL
                                                            SYSDSN
                                                                      EXC TS5485
     TS5485.RS86.SPFTEMP2.CNTL
                                                            SYSDSN
                                                                      EXC TS5485
     TS5485.RS86.SPFTEMP1.WORK
                                                            SYSDSN
                                                                      EXC T55485
     TS5485.RS86.SPFTEMP2.LIST
                                                            SYSDSN
                                                                     EXC TS5485
```

ENQD Columns

```
Row 1 to 22 of 22
                             Show Columns
Command ===>
Sort column with F5. Use Locate to position to column.
_ All values
                  _ Column width
Column
                  ## Value
MINOR
                  01 TS5485.RS86.ISPPROF
Major
                  01 SYSDSN
                  01 SHR
Req
JobName
                  01 TS5485
ASID
                  01 117
ASIDX
                  01 0075
                  O1 ENQ
Level
SMC
                  01 NO
                  01 SYSTEMS
Scope
                  O1 OWN
Status
Owners
                   01 1
Waiters
                   01 0
WaitExc
                   01 0
WaitShr
                   01
                   01
Unit
UserData
                   01
RegTime
                  01 03/04/2019 10:49:42
EngToken
                  01 C5D5D8E3010000000000050001C9CA000D5C56FD3B560B200
                      0000000C5C0003
                  01 TS5485.RS86.ISPPROF
RNameLong
SysName
                  01 R586
                  01 **End of List**
. END
```

WLM Policy (WLM) Panel

Shows details from the current WLM policy

```
<u>Display Filter View Print Options Search Help</u>
                                                        LINE 1-10 (10)
SDSF WLM POLICY DISPLAY RS86
                                   ROCKET01
COMMAND INPUT ===>
                                                               SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat
     NAME
                                       Value
                                                                         DateValu
     ACTIVE POLICY
                                       ROCKET01
                                       Rocket Software Policy 01
     POLICY DESCRIPTION
                                       R588
     ACTIVATION SYSTEM
                                      PDSCOT
     ACTIVATION USERID
     ACTIVATION DATE
                                                                        06/21/20
                                      Rocket01
     SERVICE DEFINITION
     SERVICE DEFINITION DESC
                                       Rocket Policy 01
                                       R588
     INSTALLATION SYSTEM
                                      PDSCOT
     INSTALLATION USERID
     INSTALLATION DATE
                                                                        06/21/20
```

WLM Panel Columns

WLM Service Classes (SRVC) Panel

Shows details about all service classes from the current WLM policy

```
<u>Display Filter View Print Options Search Help</u>
SDSF SERVICE CLASSES RS86
                               ROCKET01
                                                        LINE 1-25 (27)
COMMAND INPUT ===>
                                                               SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat
     NAME
              ResGroup Per Description
                                                             Duration Imp CPUCri
     ASCH
                         1 APPC Transactions
                                                                         2 NO
                                                                        2 NO
     BATCH
                         1 Batch Work
                                                                        4 NO
     CICS
                         1 CICS
                                                                        2 NO
                         1 USS DAEMON
     DAEMON
                                                                        1 NO
                         1 DB2
                                                                        4 NO
     DB2SERV
                         1 DB2 Servers
     DB2STPRO
                         1 DB2 Stored procedures
                         1 DB2 Distributed Transactions
```

SRVC Panel Columns

```
Show Columns
                                                          Row 1 to 22 of 26
Command ===>
Sort column with F5. Use Locate to position to column.
                    _ Column width
_ All values
Column
                    ## Value
NAME
                       BATCH
ResGroup
                    01
                    01 1
Per
                    01 Batch Work
Description
Duration
Imp
CPUCrit
                        NO
StorProt
                        NO
IOPrio
                        NORMAL
HonorPrio
                        DEFAULT
MaxPer
                    01
WorkLoad
                    01
                        BATCH
                        Execution velocity of 50
Goal
                    01
TranSSUse
                    01
                        NO
                        YES
AddrSpcSSUse
EncSSUse
                        NO
SysHUse
                        NO
EWLMKey
                    01
EWLMName
                    01
CrUser
                    01
                        PDSHAN
CrDate
                    01 10/08/2003 07:55:06
UpdUser
                    01 PDSHAN
```

Command ===>	Show Columns	Row 23 to 26 of 26
Sort column with F5. Use Locate to position to column.		
∠ All values	_ Column width	
Column UpdDate Policy PolicyDescription .END	## Value 01 12/17/2003 09:13:37 01 ROCKET01 01 Rocket Software Policy 01 01 **End of List**	
tile tile tile tile tile tile tile tile	******* Bottom of data ******	ale

WLM Report Classes (REPC) Panel

Shows details about all report classes from the current WLM policy

```
Display Filter View Print Options Search Help
                                                       LINE 1-8 (8)
SDSF REPORT CLASS DISPLAY RS86
                                    ROCKET01
COMMAND INPUT ===>
                                                              SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat
     NAME
              Description
                                                        PolicyDescription
                                               Policy
     CICSRPT
              CICS Report Group
                                               ROCKETO1 Rocket Software Policy
     DB250
              DB2 Sysplex Queries
                                               ROCKETO1 Rocket Software Policy
                                               ROCKETO1 Rocket Software Policy
     DDF
              DB2 Distributed Transactions
                                               ROCKETO1 Rocket Software Policy
              Web Server Transactions
     IWEB
                                               ROCKETO1 Rocket Software Policy
              Lan Server for MVS
     LSFM
     MONITORS System Monitors
                                               ROCKETO1 Rocket Software Policy
              OpenEdition MVS/UNIX
                                               ROCKET01 Rocket Software Policy
     OMVS.
     SOM
              System Object Model
                                               ROCKETO1 Rocket Software Policy
```

REPC Panel Columns

```
Show Columns
                                              Row 1 to 12 of 12
Command ===>
Sort column with F5. Use Locate to position to column.
/ All values
                 _ Column width
Column
                ## Value
                01 CICSRPT
NAME
Description 01 CICS Report Group
Policy 01 ROCKET01
PolicyDescription 01 Rocket Software Policy 01 PolicyActDate 01 06/21/2018 10:13:46
PolicyActDate
CrUser
                 01 PDSHAN
                 01 09/05/2006 09:09:00
CrDate
UpdUser
                 01 PDSHAN
                 01 09/05/2006 09:09:00
UpdDate
SysName
                  01 R586
SysLevel
                  01 z/05 02.04.00 HBB77C0
                  01 **End of List**
```

WLM Resource Groups (RGRP) Panel

Shows details about all resource groups from the current WLM policy

```
Display Filter View Print Options Search Help
SDSF RESGROUP DISPLAY RS86
                                ROCKET01
                                                      LINE 1-2 (2)
COMMAND INPUT ===>
                                                              SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat
                                                           MinSU
                                                                    MaxSU MinLP
              Description
                                               Policy
     KILLIT
              Logical Swapout for Non-Swap
                                               ROCKET01
     TSTRGRP1 TEST resource group for SDSF
                                                                   10000
                                               ROCKET01
```

RGRP Panel Columns

```
Show Columns
                                                  Row 1 to 19 of 19
Command ===>
Sort column with F5. Use Locate to position to column.
/ All values
                 _ Column width
Column
                 ## Value
NAME
                 01 TSTRGRP1
Description
                 01 TEST resource group for SDSF
Policy
                 01 ROCKET01
MinSU
                 01 1
MaxSU
                 01 10000
MinLPAR%
                 01
MaxLPAR%
                 01
MinCPU%
                 01
MaxCPU%
                 01
MemLimit
PolicyDescription
                    Rocket Software Policy 01
PolicyActDate
                 01 06/21/2018 10:13:46
CrUser
                 01 PDSCOT
                 01 07/27/2017 12:02:32
CrDate
UpdUser
                 01 PDSCOT
UpdDate
                 01 05/14/2018 10:06:30
SysName
                 01 RS86
SysLeve1
                 01 z/05 02.04.00 HBB77C0
. END
                 01 **End of List**
```

WLM Workloads (WKLD) Panel

Shows details about all workloads from the current WLM policy

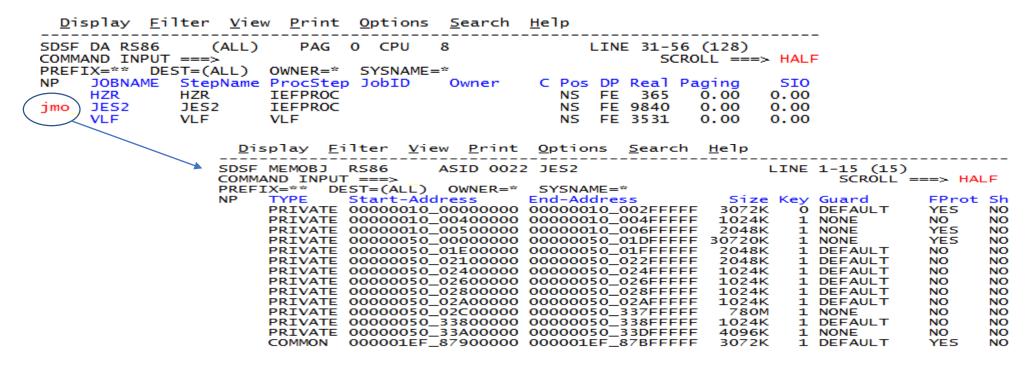
```
Display Filter View Print Options Search Help
                                                       LINE 1-13 (13)
SDSF WORKLOAD DISPLAY RS86
                                ROCKET01
COMMAND INPUT ===>
                                                              SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=*
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat
     NAME
                                                        PolicyDescription
              Description
                                               Policy
     ASCH
                                               ROCKET01 Rocket Software Policy
              APPC
     BATCH
              Batch Workload
                                               ROCKET01 Rocket Software Policy
     CICS
                                               ROCKET01 Rocket Software Policy
              CICS
                                               ROCKETO1 Rocket Software Policy
              DB2 Work
     DB2
     DB2SERV
                                               ROCKETO1 Rocket Software Policy
             DB2 Servers
                                               ROCKETO1 Rocket Software Policy
              Distributed DB2
     DDF
     IMS
                                               ROCKET01 Rocket Software Policy
              HTTP Server, Fast Resp Cache Acc ROCKET01 Rocket Software Policy
     IWEB
              Bottom of the Barrel
                                               ROCKET01 Rocket Software Policy
     SOAKER
              Started Tasks
                                               ROCKETO1 Rocket Software Policy
     STC
                                               ROCKETO1 Rocket Software Policy
     SYSTEM
              THE SYSTEM WORKLOAD
```

WKLD Panel Columns

```
Show Columns
                                       Row 1 to 12 of 12
Command ===>
Sort column with F5. Use Locate to position to column.
/ All values
                Column width
Column
                ## Value
               01 ASCH
NAME
Description 01 APPC 01 ROCKET01
PolicyDescription 01 Rocket Software Policy 01
PolicyActDate
                01 06/21/2018 10:13:46
CrUser
                01 PDSHAN
                01 04/30/2007 12:17:29
CrDate
                01 PDSHAN
UpdUser
UpdDate
               01 04/30/2007 12:17:29
SysName
                01 RS86
SysLevel
                01 z/05 02.04.00 HBB77C0
                01 **End of List**
```

Job Memory Objects (JMO) Panel

- Shows all memory objects allocated for an address space
 - Accessed with JMO action from DA and AS panels



JMO Panel Columns

```
Show Columns
                                            Row 1 to 18 of 18
Command ===>
Sort column with F5. Use Locate to position to column.
                 _ Column width
/ All values
Column
                 ## Value
                 01 PRIVATE
TYPE
Start-Address 01 00000010_00000000
End-Address 01 00000010 002FFFF
End-Address
                 01 00000010_002FFFFF
Size
                 01 3145728
Key
                 01 0
Guard
                 01 DEFAULT
FProt
                 01 YES
Shared
                 01 NO
                 01 NO
Large
CrDate
                 01
PamRetAddr
                 01
JobName
                 01 JES2
JobID
                 01
                 01 34
ASID
ASIDX
                 01 0022
SysName
                 01 RS86
                 01 z/OS 02.04.00 HBB77C0
SysLeve1
                 01 **End of List**
```

Job DD Name (JDDN) Panel

- Shows data set allocations for a job
 - Subset of Job Device panel but no TCPIP or CF rows are shown
- Accessed with JDD action character from DA, AS, I, ST, INIT, and NS panels
- Use SRCH command to locate members within the data sets shown

Job DD Name (JDDN) Panel

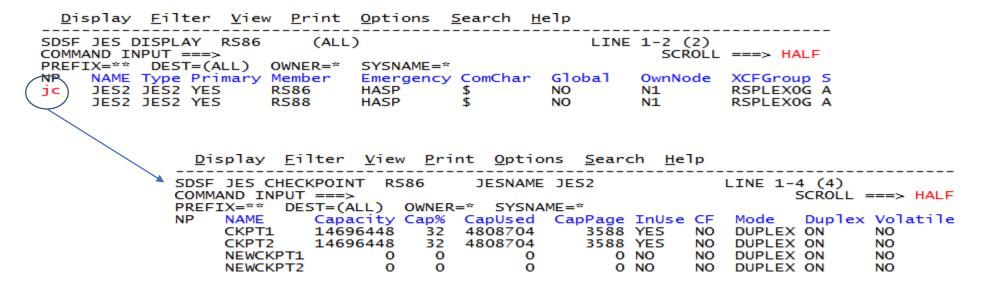
```
Display Filter View Print Options Search Help
SDSF AS DISPLAY RS86
                          R586
                                                        LINE 63-65 (65)
COMMAND INPUT ===>
                                                               SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=*
                                SYSNAME=
             ASIDX Real Fixed
                                      CSA
                                            CSA%
                                                           ECSA%
                                                                             50A%
     JOBNAME
                                                     ECSA
                            126
                                        0
                                            0.00
                                                            0.35
                                                                             0.00
     SDSFKJ
              0078
                     1355
                                                   635616
              0079
                            183
                                        O
                                            0.00
                                                            0.00
                                                                             0.00
     SDSFAUX
                     2603
                                                     7136
jdd
     TS5485
              007B
                            130
                                            0.00
                                                     2520
                     2663
                                      160
                                                            0.00
                                                                             0.00
                Display Filter View Print Options Search Help
             SDSF JOB DDNAME RS86
                                         ASID 007B TS5485 TSU01475 LINE 1-26 (37)
              COMMAND INPUT ===>
                                                                              SCROLL ===> HALF
              PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
                   DDNAME
                             Seq Status
                                          DataSetName
                               1 ALLOC
                                          TS5485.RS86.SPFTEMPO.CNTL
                   ISPCTLO
                               1 ALLOC
                   ISPCTL1
                                          TS5485.RS86.SPFTEMP1.CNTL
                   ISPCTL2
                               1 ALLOC
                                          TS5485.RS86.SPFTEMP2.CNTL
                               1 OPEN
                   ISPLOG
                                          T55485.T55485.T5U01475.D0000103.?
                   ISPLST1
                               1 ALLOC
                                          TS5485.RS86.SPFTEMP1.LIST
                   ISPLST2
                               1 ALLOC
                                          TS5485.RS86.SPFTEMP2.LIST
                   ISPMLIB
                               1 OPEN
                                          ISP.SISPMENU
                   ISPPLIB
                               1 OPEN
                                          RSRTE.LIBDEF.ISPPLIB
                   ISPPLIB
                               2 OPEN
                                          ROCKET.USER.SPFPLIB
                   ISPPLIB
                               3 OPEN
                                          ISP.SISPPENU
                   ISPPROF
                               1 OPEN
                                          TS5485.RS86.ISPPROF
                   ISPSLIB
                               1 OPEN
                                          ISP.SISPSLIB
                   ISPSLIB
                               2 OPEN
                                          ISP.SISPSENU
                   ISPTABL
                               1 ALLOC
                                          TS5485.RS86.ISPPROF
                   ISPTLIB
                               1 OPEN
                                          ISP.SISPTENU
                   ISPTLIB
                               2 OPEN
                                          RSRTE.LIBDEF.ISPTLIB
                   ISPWRK1
                                          T55485.R586.SPFTEMP1.WORK
                               1 ALLOC
                   ISPWRK2
                               1 ALLOC
                                          TS5485.RS86.SPFTEMP2.WORK
```

JDDN Panel Columns

```
Show Columns
                                                       Row 1 to 22 of 23
Command ===>
Sort column with F5. Use Locate to position to column.
/ All values
                  Column width
Column
                   ## Value
DDNAME
                  01 ISPCTL0
Seq
                  01 1
                  01 ALLOC
Status
DataSetName
                  01 TS5485.RS86.SPFTEMPO.CNTL
VolSer
                  01 TSPG00
Unit
                  01 649A
UnitCt
                   01 1
                   01 FB
RecFm
LRecL
                   01 80
B1kSize
                   01 23440
Disp1
                   O1 NEW
Disp2
                   O1 DELETE
Disp3
                   01
EXCP-Cnt
                   01
Open
                   01
                   01 PS
DSOrg
                   01 YES
SMS
ConnectTime
                  01 0.000
AvgConnTime
                  01 0.000
APĒ
                  01
                  01 R586
SysName
                  01 z/05 02.04.00 HBB77C0
SysLeve1
```

JES2 Checkpoint (CKPT) Panel

- Shows checkpoint properties being used by JES
- Accessed with JC action character from JES panel

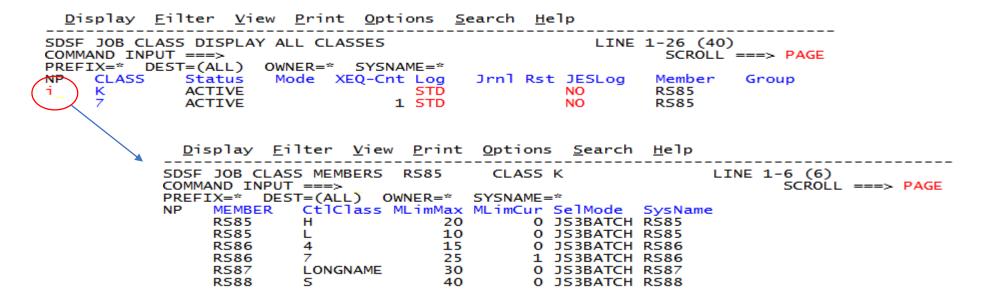


JES Checkpoint Panel Columns

```
Show Columns
                                            Row 1 to 22 of 22
Command ===>
Sort column with F5. Use Locate to position to column.
                  _ Column width
∠ All values
Column
                  ## Value
NAME
                  01 CKPT1
                  01 14696448
Capacity
Cap%
                  01 32
                01 4808704
CapUsed
CapPage
                 01 3588
                  01 YES
InUse
CF
                  01 NO
                  01 DUPLEX
Mode
Duplex
                  01 ON
Volatile
                  01 NO
OpVerify
                  01 NO
Size
                  01 16999200
Size%
                  01 100
SizeUsed
                  01 16999200
SizeTrk
                  01 300
StrName
                  01
DataSetName
                  01 RSPLEXOG. HASPCKPT
VolSer
                  01 JSPG00
JESName
                  01 JES2
                01 R586
SysName
                01 z/OS 02.04.00 HBB77C0
SysLevel
                  01 **End of List**
. END
```

Job Class Members (JCM) panel

- Shows members associated with a class (JES3 only)
- Accessed with the I action character from the JC panel



Miscellaneous Panel Updates

New columns and actions on existing panels

New Columns

Panel	Column Name	Column Title	Description
CDE	CDATTR3	Attr3	CSVINFO attribute byte 3
CDE	CDATTR4	Attr4	CSVINFO attribute byte 4
CSR	HVCOM	HVComUsed	64-bit common not released (bytes)
DA	ESRBTIME	ESRB-Time	Enclave CPU time
DA	CPULIMIT	CPU-Limit	CPU time limit
DA	REUS	Reus	Reusable address space (yes or no)
DA	SYSLEVEL	SysLevel	Level of the operating system
Н	JOBCRDATE	JobCrDate	Job creation date (JES2 only)
1	JOBCRDATE	JobCrDate	Job creation date (JES2 only)
JC	SYSNAME	SysName	System name for member (JES3 only)
JC	SELMODE	SelMode	Selection mode name (JES3 only)

New Columns

Panel	Column Name	Column Title	Description
JDD	APF	APF	APF indicator for loadlibs (yes or no)
JDS	COMPRESS	Compressed	Compression status (yes or no)
JDS	ENCRYPT	Encyrpted	Encryption status (yes or no)
JDS	KEYLABEL	KeyLabel	Keylabel for encryption
JS	TIOTHWM	TIOTHWM	High water mark for TIOT entries used (bytes)
JS	TIOTUSED	TIOTUsed	Current TIOT space used for entries (bytes)
JS	TIOTAVAIL	TIOTAvail	Size of TIOT available for entries (bytes)
MAS	CKPTLEV	CkptLevel	JES2 checkpoint level (\$activate level)
MAS	ALERT	Alert-Types	Types of alert messages outstanding (JES2 only)
0	JOBCRDATE	JobCrDate	Job creation date (JES2 only)
PAG	UNIT	Unit	Data set unit address

New Columns

Panel	Column Name	Column Title	Description
PAG	DEVNAME	DevName	Data set device name
PAG	CUNAME	CUName	Data set control unit name
PAG	SUBCHAN	SubChanSet	Data set subchannel set
PS	ZIIPTIME	zIIP-Time	System and user compute time on zIIP
PS	RUID	RUID	Process real user ID
PS	EUID	EUID	Process effective user ID
RM	SCOPE	Scope	Resource scope (local or JESPLEX)
ST	JOBCRDATE	JobCrDate	Job creation date (JES2 only)
SYS	JESTYPE	JESType	JES type for primary JES (JES2 or JES3)

New Actions

Panel	Action Character	Description
APF	SV	ISPF view
AS	JMO	Display memory objects owned by the job. Access JMO panel.
AS	N	Display enqueues
СК	SV	ISPF view
СКН	SV	ISPF view
DA	JMO	Display memory objects owned by the job. Access JMO panel.
DA	SV	ISPF view
Н	SV	ISPF view
Ţ	SV	ISPF view
JC	I	Member information. Access Job Class Members panel. (JES3 only)
JDS	SV	ISPF view

New Actions

Panel	Action Character	Description
JG	SV	ISPF view
10	SV	ISPF view
LNK	SV	ISPF view
LPA	SV	ISPF view
0	SV	ISPF view
OD	SV	ISPF view
PARM	SV	ISPF view
PROC	SB	ISPF browse data set
PROC	SE	ISPF edit data set
PROC	SV	ISPF view data set
SRCH	SV	ISPF view

New Actions

Panel	Action Character	Description
ST	SV	ISPF view
STEP	SV	ISPF view

MAS Panel Critical Notice Indicator

MAS panel title line shows "CRIT" when critical notice outstanding

```
Display Filter View Print Options Search Help
SDSF RESOURCE ALERTS RS86
                                                        LINE 1-1 (1)
COMMAND INPUT ===>
                                                               SCROLL ===> HALF
PREFIX=**
          DEST=(ALL)
                      OWNER=* SYSNAME=
                      MessageLine1
    TYPE
             Member
     NOTICE
             R586
                      $HASP9159 JES2 EXECUTION PROCESSING STOPPED ($PXEQ)
  Display Filter View
                         Print Options Search Help
                          RSPLEXOG
                                                 CRIT
                                                       LINE 1-6 (6)
SDSF MAS DISPLAY RS86
COMMAND INPUT ===>
                                                               SCROLL ===> HALF
PREFIX=** DEST=(ALL)
                       OWNER=* SYSNAME=
                                              ActHold Dormancy
                       SID PrevCkpt
    NAME Status
                                        Hold
                                                                   ActDorm SyncT
     RS85 DRAINED
                         1
                               0.00
                                           0
                                                     0 (0,0)
                                                    20 (100,500)
     RS86 ACTIVE, PXEQ
                               0.93
                                           20
                                                                       500
                                                                               1
                                                     0 (0,0)
     RS87 DRAINED
                               0.00
                                           O
                                                                         O
                                                    20 (100,500)
     RS88 ACTIVE
                               0.08
                                           20
                                                                       500
                                                                               1
Column
                        Value
Boss
                        YES
Command
                       $PXEQ
Start-Type
                    01
                        OUICK
Start-Date-Time
                    01
                        03/04/2019 10:48:14
CkptLevel
                    01
                        Z22
Alert-Types
                    01
                        CRITICAL-NOTICE
. END
                        **End of List**
```

SDSF Usability Enhancements

New capabilities in the SDSF client

SRCH Command Enhancements

- SRCH command used to locate members
 - APF, JDDN (Job DDName), LNK, LPA, PARM, PROC, SRCH
- New parameters added to limit rows shown
 - All data sets searched (default)
 - Data sets for which the member was found
 - Data sets for which the member was not found
- Default action can be controlled through new SET SRCH command
- Syntax
 - SRCH *member-pattern* [F|NF|<u>ALL</u>]

SRCH Command (All)

```
Display Filter View Print Options Search Help
SDSF PARMLIB DISPLAY RS86
                                R586
                                          EXT
                                                 33
                                                         LINE 1-5 (5)
COMMAND INPUT ===> srch isfprm*
                                                                SCROLL ===> PAGE
PREFIX=** DEST=(ALL) OWNER=*
                                 SYSNAME=
     DSNAME
                              Seg VolSer BlkSize Extent SMS LRecL DSOrg RecFm Cr
     RSPLEXOG.PARMLIB.ZOS204
                                1 MCPG00
                                           27920
                                                      1 NO
                                                                80 PO
                                                                         FΒ
                                                                                20
     RSPLEXOG. PARMLIB
                                2 MCPG00
                                           27920
                                                     14 NO
                                                                80 PO
                                                                         FΒ
                                                                                20
     RSRTE.PARMLIB
                                3 R3P104
                                           27920
                                                      1 YES
                                                                80 PO
                                                                         FΒ
                                                                                20
     ROCKET. USER. PARMLIB
                                                                80 PO
                                4 51PG00
                                           27920
                                                     16 YES
                                                                                20
     SYS1.PARMLIB
                                5 RP204B
                                           27920
                                                      1 NO
                                                                80 PO
                                                                         FΒ
                                                                                20
```

```
Display Filter View Print Options Search Help
SDSF SRCH DISPLAY ISFPRM*
                                                        LINE 1-5 (5)
COMMAND INPUT ===>
                                                               SCROLL ===> PAGE
PREFIX=** DEST=(ALL)
                       OWNER=* SYSNAME=
     DSNAME
                              SysName Seg VolSer/Status
                                                                    DSOrg BlkSize
     RSPLEXOG.PARMLIB.ZOS204 RS86
                                         1 MCPGOO FOUND
                                                                    PO
                                                                            27920
     RSPLEXOG. PARMLIB
                              R586
                                         2 MCPGOO NOT FOUND
                                                                    PO
                                                                            27920
     RSRTE.PARMLIB
                              R586
                                         3 R3P104 FOUND
                                                                    PO
                                                                            27920
     ROCKET. USER. PARMLIB
                              R586
                                         4 S1PGOO FOUND
                                                                    PO
                                                                            27920
     SYS1.PARMLIB
                             R586
                                         5 RP204B NOT FOUND
                                                                    PO
                                                                            27920
```

Results from all data sets shown

SRCH Command (Only Found)

```
Display Filter View Print Options Search Help
SDSF PARMLIB DISPLAY RS86
                                R586
                                          EXT
                                                        LINE 1-5 (5)
COMMAND INPUT ===> srch isfprm* f
                                                               SCROLL ===> PAGE
                                SYSNAME=
PREFIX=** DEST=(ALL) OWNER=*
     DSNAME
                              Seq VolSer BlkSize Extent SMS LRecL DSOrg RecFm Cr
     RSPLEXOG.PARMLIB.ZOS204
                               1 MCPG00
                                           27920
                                                      I NO
                                                               80 PO
                                                                         FΒ
                                                                               20
                                                     14 NO
     RSPLEXOG. PARMLIB
                                2 MCPG00
                                           27920
                                                               80 PO
                                                                         FΒ
                                                                               20
     RSRTE.PARMLIB
                               3 R3P104
                                           27920
                                                      1 YES
                                                               80 PO
                                                                               20
                                                                                             Use F
     ROCKET. USER. PARMLIB
                               4 51PG00
                                           27920
                                                     16 YES
                                                               80 PO
                                                                               20
     SYS1.PARMLIB
                               5 RP204B
                                           27920
                                                      1 NO
                                                               80 PO
                                                                               20
                                                                                           parameter
```

```
Display Filter View Print Options Search Help
SDSF SRCH DISPLAY ISFPRM*
                             FOUND
                                                        LINE 1-3 (3)
                                                               SCROLL ===> PAGE
COMMAND INPUT ===>
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
                                                                   DSOrg BlkSize
     DSNAME
                             SysName -
                                      Seq VolSer Status
                                         1 MCPGOO FOUND
     RSPLEXOG.PARMLIB.ZOS204 RS86
                                                                            27920
                                         3 R3P104 FOUND
     RSRTE.PARMLIB
                             R586
                                                                   PO
                                                                           27920
     ROCKET. USER. PARMLIB
                                                                   PO
                             R586
                                         4 S1PGOO FOUND
                                                                           27920
```

Tip: Change default with SET SRCH command, e.g. **SET SRCH F**

SRCH Command (Only Not Found)

```
Display Filter View Print Options Search Help
SDSF PARMLIB DISPLAY RS86
                               R586
                                         EXT
                                                33
                                                       LINE 1-5 (5)
COMMAND INPUT ===> srch isfprm* nf
                                                               SCROLL ===> PAGE
PREFIX=** DEST=(ALL) OWNER=*
                                SYSNAME=
    DSNAME
                             Seg VolSer BlkSize Extent SMS LRecL DSOrg RecFm Cr
    RSPLEXOG.PARMLIB.ZOS204
                               1 MCPG00
                                          27920
                                                     1 NO
                                                               80 PO
                                                                              20
                               2 MCPG00
                                          27920
                                                    14 NO
                                                               80 PO
                                                                        FΒ
                                                                              20
    RSPLEXOG. PARMLIB
    RSRTE.PARMLIB
                               3 R3P104
                                          27920
                                                     1 YES
                                                               80 PO
                                                                        FΒ
                                                                              20
    ROCKET. USER. PARMLIB
                                                               80 PO
                                                                              20
                               4 51PG00
                                          27920
                                                    16 YES
    SYS1.PARMLIB
                               5 RP204B
                                          27920
                                                     1 NO
                                                               80 PO
                                                                              20
    Display Filter View Print Options Search Help
  SDSF SRCH DISPLAY ISFPRM*
                               NOT FOUND
                                                          LINE 1-2 (2)
                                                                 SCROLL ===> PAGE
  COMMAND INPUT ===>
  PREFIX=** DEST=(ALL)
                         OWNER=* SYSNAME=
                                                              DSOrg BlkSize Extent
       DSNAME
                        SysName Seq VolSer/Status
       RSPLEXOG. PARMLIB RS86
                                   2 MCPGOO NOT FOUND
                                                              PO
                                                                      27920
                                                                                14
```

SYS1.PARMLIB

R586

5 RP204B NOT FOUND

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PO

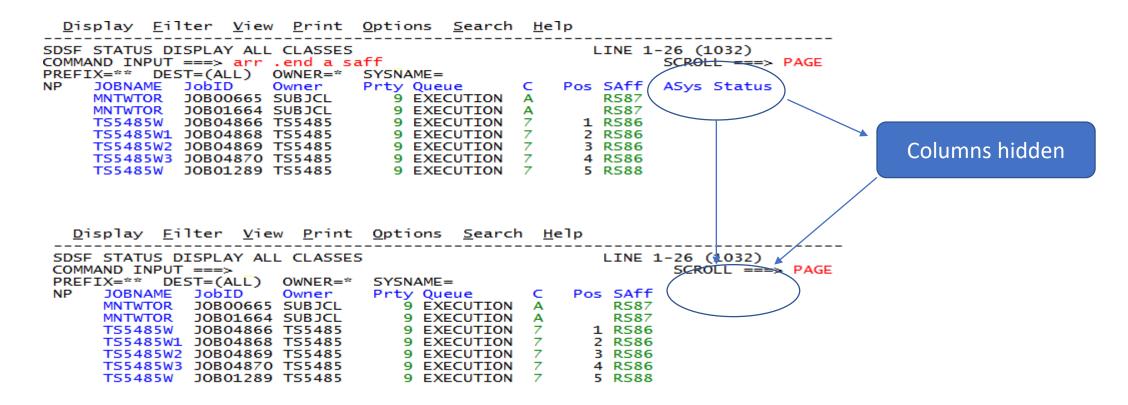
27920

1

ARRANGE hidden columns

- Hide columns on tabular panels using ARRANGE command
 - Reduces left/right scrolling
 - Use / action to show columns in pop-up
- New special column name .END
 - Marks end of visible columns
 - All columns up to .END will be shown on panel
- Examples:
 - arr .end a saff (All columns after SAff will be hidden)
 - arr .end last (All columns will be visible)
 - arr default (resets to default column arrangement)
 - arr? (to display arrange pop-up)

Arrange Hidden Columns



Arrange Hidden Columns (Pop-Up)

```
Display Filter View Print Options Search Help
                                                       LINE 1-26 (1143)
SDSF STATUS DISPLAY ALL CLASSES
COMMAND INPUT ===> arr ?
                                                              SCROLL ===> PAGE
PREFIX=** DEST=(ALL) OWNER=*
                                SYSNAME=
     JOBNAME JobID
                                                    Pos SAff
                       Owner
                                Prty Queue
    MNTWTOR
              JOBO0665 SUBJCL
                                   9 EXECUTION A
                                                        RS87
             JOB01664 SUBJCL
                                                        R587
     MNTWTOR
                                   9 EXECUTION A
     TS5485W
              J0B04866 T55485
                                   9 EXECUTION 7
                                                      1 R586
        Display Filter View Print Options Search Help
                                                                   Row 1 to 10 of 58
      SDSF STATUS
                                                 Arrange
      COMMAND INPU
                     Command ===>
      PREFIX=** D
                     To move a column, select with / (// for a block), then type A
           JOBNAME
                      (after) or B (before). Special function keys:
           MNTWTOR
                     F5/17=Refresh list F11/23=Clear input F6/18=Default order
           MNTWTOR
           T55485W
                          NP width
           T55485W
                                                     Current width: 4
           TS5485W
                                              Width
           T55485W
                          Column
                                                      Description
           T55485W
                           JobID
           PDSCOT
                           Owner
           TS6106
                           Prty
           TS6106
                           Queue
           TS5485
           SYSLOG
                           Pos
           VTAM
                           SAff
                                                      **End of List**
           HZSPRO¢
                           .END
           INIT
                           A5ys
           INIT
                           Status
           INIT
```

Arrange Hidden Columns (Pop-Up) ...

```
Display Filter View Print Options Search Help
SDSF STATUS DISPLAY ALL CLASSES
                                                        LINE 1-26 (1143)
COMMAND INPUT ===>
                                                               SCROLL ===> PAGE
PREFIX=** DEST=(ALL)
                       OWNER=*
                                SYSNAME=
     JOBNAME
              JobID
                                                               ASys
                       Owner
                                Prty Queue
     MNTWTOR
              JOB00665 SUBJCL
                                   9 EXECUTION
                                                         R587
     MNTWTOR
              JOB01664 SUBJCL
                                   9 EXECUTION
                                                         R587
                                                        R586
     TS5485W
              J0B04866 T55485
                                   9 EXECUTION
     T55485W1 J0B04868 T55485
                                   9 EXECUTION
                                                       2 RS86
     T55485W2 J0B04869 T55485
                                   9 EXECUTION
                                                       3 RS86
```

Hide Fixed Field Point-and-Shoot

- Fixed field point-and-shoot convenient way to access secondary panels
 - Point-and-shoot on fixed field to access the associated secondary panel
 - For example, ST->JDS->output data set (browse)
- Fixed field rendered in turquoise when FFPS enabled
 - Some users interpreted this as row highlighting
- New option on SET FFPS command
 - SET FFPS [ON|HIDE|OFF|?]
- SET FFPS HIDE enables fixed field for point-and-shoot
 - Fixed field will not be conditioned turquoise
 - Conditioned same as row highlighting

Fixed field point-and-shoot

```
<u>Display Filter View Print Options Search Help</u>
SDSF STATUS DISPLAY ALL CLASSES
                                                         LINE 1-26 (1032)
COMMAND INPUT ===> (set ffps hide
                                                                SCROLL ===> PAGE
PREFIX=** DEST=(ALL) OWNER=*
                                 SYSNAME=
     JOBNAME
              JobID
                        Owner
                                 Prty Queue
                                                      Pos SAff
     MATWTOR
              JOBO0665 SUBJCL
                                    9 EXECUTION A
                                                          RS87
      INTWTOR
              JOB01664 SUBJCL
                                    9 EXECUTION A
                                                          RS87
     TS5485W
              J0B04866 T55485
                                    9 EXECUTION 7
                                                        1 RS86
              JOB04868 T55485
     TS5485W1
                                    9 EXECUTION 7
                                                        2 RS86
     T55485W2 J0B04869 T55485
                                    9 EXECUTION 7
                                                        3 RS86
     TS5485W3/
              J0B04870 T55485
                                    9 EXECUTION
                                                        4 RS86
     TS5485W/
              JOB01289 T55485
                                    9 EXECUTION 7
                                                        5 RS88
  Display Filter View Print Options Search Help
                                                          SET COMMAND COMPLETE
SDSF STATUS DISPLAY ALL CLASSES
COMMAND INPUT ===>
                                                                SCROLL ===> PAGE
PREFIX=** DEST=(ALL)
                       OWNER=*
                                 SYSNAME=
     JOB<u>NA</u>ME
              JobID
                                                      Pos SAff
                        Owner
                                 Prty Queue
     MNTWTOR
              JOBO0665 SUBJCL
                                    9 EXECUTION A
                                                          R587
     MNTWTOR\
              JOB01664 SUBJCL
                                    9 EXECUTION A
                                                          RS87
                                    9 EXECUTION
     TS5485W
              JOB04866 T55485
                                                        1 RS86
     TS5485W1
              JOB04868 T55485
                                                        2 RS86
                                    9 EXECUTION
     TS5485W2
              JOB04869 T55485
                                    9 EXECUTION
                                                        3 RS86
     T55485W3/ J0B04870 T55485
                                                        4 RS86
                                    9 EXECUTION
     T55485W/
              J0B01289 T55485
                                    9 EXECUTION
                                                        5 RS88
```

Fixed field is still enabled for point-and-shoot but attribute not conditioned

Rename slash command groups

- System command extension panel (/ command popup)
 - Use to classify and display slash command groups
- Once command is grouped
 - Command can be deleted
 - Command can be added to another group
- Now can rename one command group to another
 - If command does not exist in the target group or target group does not exist
 - Command will be moved to new group
 - If command exists in the target group
 - Comment will be appended to the target command
 - Source command will be removed from the old group

Rename Slash Command Groups

	ew Print Options S SPLEXOG RS86			-26 (63) SCROLL ===>	 > Р
Edit Options	Help				
	System Command				-
					_
				STORELIMIT	Ē
	Show <u>*</u> T		(F4 for	list) More:	۲
					,
Edit Options I					
2. Rename gro	em Command E	xtension			
===> Comment				STORELIMIT	

Rename Slash Command Groups

```
Display Filter View Print Options Search Help
                RSPLEXOG RS86
SDSF MENU V2R4M0
                                                  LINE 1-26 (63)
COMMAND INPUT ===> /
      Edit Options Help
      2 1. Clear... em Command Extension 2. Rename group...
                                                          STORELIMIT
    Comment
 Display Filter View Print Options Search Help
                 RSPLEXOG RS86
                                                  LINE 1-26 (63)
SDSF MENU V2R4MO
COMMAND INPUT ===> /
      Edit Options Help
              Rename Slash Command Group
    = | Type the old and new group names.
                                                          STORELIMIT
        Old group name . . . .
       New group name . . . _
                                                 (F4 for list)
        F1=Help F4=Prompt F12=Cancel
                                                         More:
    => D PROG,LNKLST
```

New ISPF View Action

- All panels implementing ISPF edit and browse (SE and SB) now support ISPF view
 - SV action character
 - Very similar to ISPF edit
- ISPF view also supported on SNAP command
 - SNAP [S|SB|SE|SV]
 - Control default using SET SNAP command

Data Set Short Mode

- Data set attributes shown on APF, LNK, LPA, PARM, and PROC panels
 - Obtained through catalog lookup and reading the VTOC
 - Can be time consuming based on number of data sets shown
- New S | SHORT parameter added to command
 - APF [S|SHORT]
 - LNK [S|SHORT]
 - LPA [S|SHORT]
 - PARM [S|SHORT]
 - PROC [S|SHORT]
- Columns not retrieved in short mode:
 - VolSer, Status, BlkSize, Extent, SMS, LRecL, DSOrg, RecFm, CrDate, RefDate

Data Set Short Mode

```
Display Filter View Print Options Search Help
SDSF LNK DISPLAY RS86
                           R586
                                      EXT
                                                        LINE 1-26 (47)
COMMAND INPUT ===> lnk s
                                                                SCROLL ===> PAGE
PREFIX=** DEST=(ALL) OWNER=*
                                SYSNAME=
                                   Seq VolSer BlkSize Extent SMS APF LRecL DSOrg
    DSNAME
     SYS1.LINKLIB
                                    1 RP204B
                                                32760
                                                           1 NO
                                                                 YES
                                                                          O PO
                                     2 RP204B
                                                32760
                                                           1 NO
                                                                 YES
                                                                          O PO
     SYS1.MIGLIB
     SYS1.CSSLIB
                                     3 RP204B
                                                32760
                                                           1 NO
                                                                 YES
                                                                          O PO
                                     4 RP204B
                                                32760
                                                           1 NO
                                                                 NO
                                                                          0 PO-E
     SYS1.SIEALNKE
     SYS1.SIEAMIGE
                                     5 RP204B
                                                32760
                                                           1 NO
                                                                 NO
                                                                          0 PO-E
   Display Filter View Print Options Search Help
 SDSF LNK DISPLAY RS86
                            R586
                                      *EXT
                                                         LINE 1-26 (47)
 COMMAND INPUT ===>
                                                                SCROLL ===> PAGE
                                 SYSNAME=
 PREFIX=** DEST=(ALL)
                        OWNER=*
      DSNAME
                                       VolSer BlkSize Extent SMS APF LRecL DSOrg
      SYS1.LINKLIB
                                                                   NO
      SYS1.MIGLIB
                                                     O
                                                                   NO
                                                                           0
                                                     O
                                                                           O
      SYS1.CSSLIB
                                                                   NO
      SYS1.SIEALNKE
                                                                   NO
                                                                           0
      SYS1.SIEAMIGE
                                                                   NO
                                 Asterisk indicates extent
                                     count not valid
```

ABOUT command

- Copyright notice no longer shown on entry to SDSF
- Use new ABOUT command to display copyright notice

```
Display Filter View Print Options Search Help
                                               11 1. Extended help...
DSF MENU V2R4M0
                  RSPLEXOG RS86
OMMAND INPUT ===>
                                                  Keys help...
                                                                        PAGE
REFIX=**
         DEST=(ALL) OWNER=*
                              SORT=NAME/A S
                                                  Help Index...
    NAME
            Description
                                     Group
                                                  Tutorial...
    APF
            APF data sets
                                     System

    Book...

    AS.
            Address space memory
                                     Jobs
                                                  Web sites...
    BPXO
            OMVS options
                                     OMVS
                                                  REXX generation
   CFC
            CF Connections
                                     Sysplex
                                                  REXX examples
    CFS
                                                  9. REXX help...
            CF Structures
                                     Sysplex
    CK
            Health checker
                                     System
                                                 Columns help...
    CSR
            Common storage remaining Memory
                                                 11. About...
    DA
            Active users
                                     Jobs
            Device activity
    DEV
                                     Devices
```

Query Auth command

- Query Auth command lists all commands for which user is authorized
 - Typically used in SDSF/REXX execs to determine available functionality
- Now includes slash command
 - Previously omitted because slash could be authorized based on SAF or in non-SAF case by command level (cmdlev)

```
Display Filter View Print Options Search Help

SDSF MENU V2R4M0 RSPLEXOG RS86 LINE 1-26 (63)
COMMAND INPUT ===> query auth SCROLL ===> PAGE
AUTH=ABEND, ACTION, APF, AS, BPXO, CFC, CFS, CK, CSR, DA, DEST, DEV, DIAG, DYNX, EMCS, ENC,
AUTH=ENQ, ENQC, ENQD, FINDLIM, FS, GT, H, I, INIT, INPUT, JC, JG, JP, JO, LINES, LNK, LOG, LPA,
AUTH=LPD, MAS, NA, NC, NODES, NS, O, OWNER, PAG, PAGE, PARM, PR, PREFIX, PROC, PS, PUN, RDR,
AUTH=REPC, RES, RGRP, RM, RMA, RSYS, SE, SLASH, SMSG, SMSV, SO, SP, SR, SRVC, SSI, ST, SYM,
AUTH=SYS, SYSID, SYSNAME, SYSTEM, TRACE, ULOG, VMAP, WKLD, WLM, XCFM
```

New Special DD Names

- SDSF security trace (sectrace) is a diagnostic aid used to assist in defining security profiles
 - Sectrace writes messages to ULOG or as WTP
 - Controlled with SET SECTRACE command or through invocation options on SDSF command
 - In SDSF/REXX, typically the script is modified to add the isfsectrace special variable
- New special ddnames to control sectrace
 - **ISFSECTR** equivalent to set sectrace on
 - ISFSECTW equivalent to set sectrace wtp
- Example:

alloc fi(isfsectr) dummy reus

Column formatting changes

- Low lighting of columns with zero value independently of row hightlighting
 - Values considered significant are not low lighted
- Automatic right justification of column titles for numeric fields
 - Removes need to define column titles with leading blanks to force alignment
- Custom properties provided to restore previous behavior

WHO Command

- New emergency subsystem indicator when user is logged in to emergency JES2 subsystem
 - Also shown on JES panel Emergency column

```
Display Filter View Print Options Search Help

SDSF MENU V2R4M0 RSPLEXOG RS86 LINE 1-26 (63)
COMMAND INPUT ===> SCROLL ===> PAGE
USERID=TS5485, PROC=ROCKPROC, TERMINAL=S86TCP02, GRPINDEX=1, GRPNAME=ISFSPROG,
MVS=z/OS 02.04.00, JES=z/OS 2.4, SDSF=HQX77C0, ISPF=7.4, RMF/DA=HSF, SERVER=YES,
SERVERNAME=SDSF, JESNAME=HASP/E, MEMBER=RS86, JESTYPE=JES2, SYSNAME=RS86,
SYSPLEX=RSPLEXOG, COMM=NOTAVAIL, COMMX=ENABLED, JOBID=TSU02225
BPX0 OMVS options OMVS
CFC CF Connections Sysplex
```

SDSF/REXX

Enhancements

SDSF/REXX Special DDName

- Debugging SDSF/REXX execs may include
 - Adding verbose option to SDSF commands (e.g. ISFEXEC and ISFACT)
 - Printing isfmsg2 stem variable
 - Displaying WHO command response
 - This usually means updating the exec
- New special ddname ISFRXDBG will do this without need for modifying the exec
 - alloc fi(isfrxdbg) dummy reus -or-
 - //ISFRXDBG DD DUMMY in a batch job

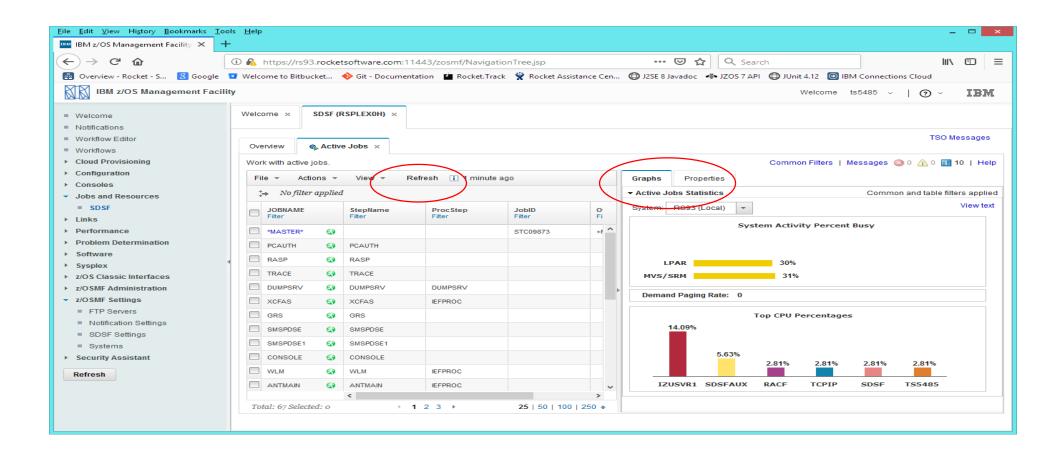
z/OSMF SDSF Plug-In

Plug-In Updates

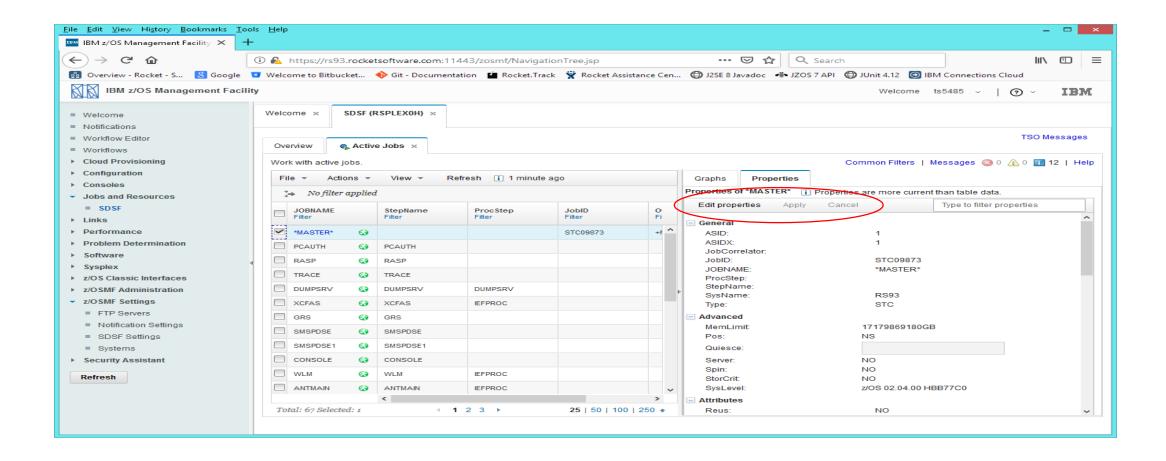
z/OSMF SDSF Plug-In

- Usability improvements
 - Reduced scrolling
 - Apply/Cancel/Refresh buttons moved to menu bar
 - Header lines consolidated to reclaim window space
- Panel graphics moved to tab next to property sheet

SDSF Plug-In



SDSF Plug-In



Installation and Configuration

Installation considerations

Interactions & Dependencies

 To exploit this item, all systems in the Plex must be at the new z/OS level: No

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

Migration & Coexistence Considerations

- Toleration support (for V2R2 and V2R3)
 - APARs PI97517 and PH04841
 - Apply at any time when APARs/PTFs are available
- Migration support
 - Special ddname ISFSMIGDA to restore prior implementation of DA panel
 - If you are using old style ISFPARMS, you must reassemble using V2R4 macros.
 - ISFPARMS cannot be shared with prior levels
- Coexistence support
 - None (SDSF V2R4 is compatible with SDSF V2R2 and SDSF V2R3)

Installation

- New function requires SDSF and SDSFAUX address spaces
 - If you are not starting the SDSF address space, DO IT NOW !!!
 - Please re-read the bullet above!
- If you are using old style ISFPARMS (assembler macros), please convert to ISFPRMxx
 - Run utility ISFACP to create an ISFPRMxx from your ISFPARMS
 - If you are not using ISFPRMxx, please convert and DO IT NOW !!!
 - Please re-read the bullet above!

Installation Reminders

- If you are not starting SDSF address space
 - Copy ISF.SISFJCL(SDSF) and ISF.SISFJCL(SDSFAUX) to proclib
 - Copy ISF.SISFJCL(ISFPRM00) to parmlib
 - Add "S SDSF" to COMMNDxx
- SDSF class must be raclisted
- User must be authorized to connect to SDSF
 - Read access to ISF.CONNECT.system in SDSF class
 - Connection failures are tolerated but no new function will be available
 - Some existing panels have been migrated to use SDSFAUX

SDSFAUX Usage

- Panels now requiring SDSF server (and SDSFAUX)
 - CK, CKH, DA, ENC, PS, RM
- DA migration mode
 - Fallback to prior implementation provided for DA panel in event of unforeseen issues
 - Temporary
 - Allocate special DD name ISFMIGDA
 - alloc fi(isfmigda) dummy reus
 - //ISFMIGDA DD DUMMY
 - Generic tracker event created

ISFPARMS

- Use ISFPRMxx instead of old style ISFPARMS
 - Since SDSF server required, ISFPRMxx always processed
 - ISFPARMS can be error prone and implements a subset of ISFPRMxx
 - Assembled with wrong macros, running down level, etc.
 - Not being enhanced
 - Cannot be shared

Session Summary

- Reviewed new function in SDSF V2R4
 - Easier to use!!
 - New panels !!
- Everyone will be starting the SDSF address space!!

Appendix

Documentation

Documentation

- SDSF Operation and Customization (SA24-2274)
- SDSF User's Guide (SC27-9028)
- SDSF REXXHELP command
 - Contains SDSF/REXX usage, syntax, and examples
- SDSF RGEN command
 - Generates starter SDSF/REXX execs and examples
- SDSF Javadoc
 - Contains SDSF/Java documentation
 - Download from /usr/lpp/java/classes/isfjcallDoc.jar

Documentation

- SDSF SEARCH command
 - Searches SDSF help system for word or phrase
- SDSF HELP command (PF1)
 - Context sensitive help

"What's New" in SDSF

• See "What's New" in SDSF help for complete list of changes

```
Display Filter View Print Options Search Help
                      HELP: SDSF -- Table of Contents
COMMAND INPUT ===>
  Select a topic by number, or press Enter to view topics in sequence.
  1 - What's new
                                            13 - SDSF command
   2 - Job and process panels
                                            14 - Help commands
   3 - Device and resource panels
                                            15 - Action bar
                                           16 - PF keys and keylists
17 - Action characters
   4 - Workload panels
   5 - System information panels
6 - JES resource panels
                                            18 - Overtypeable fields
   7 - Search and scroll commands
                                            19 - JES and MVS commands
   8 - Filter commands
                                            20 - Point-and-shoot
                                            21 - Special ddnames
   9 - View commands
                                          22 - Online library
  10 - Printing data
 11 - Options commands
                                            23 - Server commands
  12 - Other commands
                                            99 - SDSF messages
  SEARCH - Search help (ISPF only) REXXHelp - SDSF REXX (ISPF only)
```

"What's New" in SDSF

```
Display Filter View Print Options Search Help
                    HELP: What's New in SDSF
COMMAND INPUT ===> 99
        Select a topic or press Enter to view them in sequence.
        1 - System information panels (EMCS,OMVS,LPD,XCFM,ENQD,JES,CKPT)
        2 - Résource panels (JCM,REPC,RGRP,RMA,SRVC,WKLD,WLM,JRI,JRJ)
        3 - Job detail panels (JMO and JDD)
        4 - New SRCH command options
        5 - Rename system command groups6 - Arrange hidden columns
        7 - ISPF view support
        8 - New and changed columns on tabular panels
        9 - Other enhancements and changes
            Enhancements in previous releases
                   Display Filter View Print Options Search Help
                                     HELP: What Was New in Previous Releases
                  COMMAND INPUT ===>
                           Select a release by number.
                           1 - z/OS Version 2 Release 3
                           2 - z/OS Version 2 Release 2
                           3 - z/OS Version 2 Release 1
                           4 - z/OS Version 1 Release 13
                           5 - z/OS Version 1 Release 12
                           6 - z/OS Version 1 Release 11
                           7 - z/OS Version 1 Release 10
                           8 - z/OS Version 1 Release 9
                           9 - z/OS Version 1 Release 8
                          10 - z/OS Version 1 Release 7
```

SDSF V2R4

Questions?

SDSF V2R4

Thank You!