

# SDSF Update for z/OS V2R3

# Agenda

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

# Trademarks

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

- Additional Trademarks:

-None

# Session Objectives

- Recent Updates (SDSF V2R1 and V2R2 SPEs)
- Usability enhancements in SDSF V2R3
- New tabular panels in SDSF V2R3
- Miscellaneous updates in SDSF V2R3
- Installation and Configuration
- Documentation and Help

# Overview

- Problem Statement / Need Addressed

- New function to help you manage the system

- Solution

- New tabular panels: CSR, DEV, FS, GT, NA, SMSG, SMSV, SSI, VMAP, XCFC, XCFS
  - New secondary panels: Job Modules, Job Tasks
  - New action characters, overtypes, usability enhancements

- Benefit / Value

- Simplify management of the system
  - Improve user experience

# Usage and Invocation

- Several ways to invoke SDSF
  - ISPF option 13.14
  - Modified ISPF main panel – Option S
  - SDSF TSO command (does not used ISPF services)
- New function will be available to user if authorized

# Prior Release Review

- SDSF V2R1 and V2R2 new function (via SPEs)
  - AS – address space memory
  - APF – APF list \*\*
  - DYNX – dynamic exits
  - ENQ – enqueues (ENQC for contention)
  - LNK – link list \*\*
  - LPA – LPA list \*\*
  - PAG – page data sets
  - PARM – parmlib data sets \*\*
  - PROC – proclib data sets (JES2 only) \*\*
  - SYS – system panel

\*\* SRCH command applies

# AS Panel

Display Filter View Print Options Search Help											
SDSF AS DISPLAY R584 R584						LINE 1-24 (67)					
COMMAND INPUT ==>						SCROLL ==> HALF					
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=											
NP	JOBNAME	ASIDX	Real	Fixed	CSA	CSA%	ECSA	ECSA%	SQA	SQA%	
	*MASTER*	0001	2444	1510	110928	3.22	2685080	1.49	30312	1.83	
	PCAUTH	0002	110	60	0	0.00	0	0.00	64	0.00	
	RASP	0003	288	273	0	0.00	0	0.00	0	0.00	
	TRACE	0004	5851	592	0	0.00	0	0.00	0	0.00	
	DUMPSRV	0005	394	128	0	0.00	4696	0.00	64	0.00	
	XCFAS	0006	4619	1121	0	0.00	0	0.00	160	0.00	
	GRS	0007	2765	165	0	0.00	2304	0.00	960	0.05	
	SMSPDSE	0008	640	124	0	0.00	0	0.00	0	0.00	
	SMSPDSE1	0009	1644	129	0	0.00	0	0.00	0	0.00	
	CONSOLE	000A	2399	141	2880	0.08	57288	0.03	11672	0.70	
	WLM	000B	1994	164	0	0.00	104488	0.05	0	0.00	
	ANTMAIN	000C	1636	209	0	0.00	801432	0.44	0	0.00	
	ANTAS000	000D	1521	185	0	0.00	185984	0.10	0	0.00	
	DEVMAN	000E	619	74	0	0.00	93648	0.05	0	0.00	
	GTZ	000F	268	71	0	0.00	1584	0.00	0	0.00	
	OMVS	0010	17264	376	0	0.00	52088	0.02	0	0.00	
	PCIE	0011	219	68	0	0.00	26064	0.01	64	0.00	
	FPGHWAM	0012	257	92	0	0.00	2296	0.00	64	0.00	
	HZSPROC	0013	5133	186	0	0.00	736	0.00	0	0.00	
	RESOLVER	0014	469	114	0	0.00	312	0.00	0	0.00	
	IEFSCHAS	0015	75	39	0	0.00	0	0.00	0	0.00	
	JESXCF	0016	708	97	0	0.00	350344	0.19	64	0.00	
	ALLOCAS	0017	2869	152	0	0.00	3064	0.00	0	0.00	
	SMS	0018	488	92	0	0.00	0	0.00	64	0.00	



# APF Panel

Display Filter View Print Options Search Help									
SDSF APF DISPLAY RS84 RS84 EXT 50				LINE 1-26 (39)					
COMMAND INPUT ==>				SCROLL ==> HALF					
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=									
NP	DSNAME	Seq	Vol	Ser	Status	BlkSize	Extent	SMS	Rec'd
	SYS1.LINKLIB	1	RZ203A	OK		32760	1 NO		
	SYS1.SVCLIB	2	RZ203A	OK		32760	1 NO		
	CEE.SCEERUN	3	RZ203A	OK		32760	1 NO		
	CEE.SCEERUN2	4	RZ203A	OK		32760	1 NO		
	CSF.SCSFMODO	5	RZ203A	OK		32760	1 NO		
	DIT.H0GB310.SDITMOD1	6	RZ203A	OK		32760	1 NO		
	EQAW.SEQAAUTH	7	RZ203A	MISSING		0	0 NO		
	EQAW.SEQABMOD	8	RZ203A	MISSING		0	0 NO		
	EQAW.SEQAMOD	9	RZ203A	MISSING		0	0 NO		
	FFST.V120ESA.SEPWMOD1	10	RZ203A	OK		32760	1 NO		0 P
	FFST.V120ESA.SEPWMOD2	11	RZ203A	OK		32760	1 NO		0 P
	REXX.SEAGALT	12	RZ203A	OK		32760	1 NO		0 P
	REXX.SEAGLPA	13	RZ203A	MISSING		0	0 NO		0
	SYS1.CSSLIB	14	RZ203A	OK		32760	1 NO		0 P
	SYS1.MIGLIB	15	RZ203A	OK		32760	1 NO		0 P
	SYS1.NFSLIBE	16	RZ203A	OK		32760	1 NO		0 P
	SYS1.SBDTCMD	17	RZ203A	OK		32760	1 NO		0 P
	SYS1.SBDTLIB	18	RZ203A	OK		32760	1 NO		0 P
	SYS1.SERBLINK	19	RZ203A	OK		32760	1 NO		0 P
	SYS1.SHASLNKE	20	RZ203A	OK		32760	1 NO		0 P
	SYS1.SHASMIG	21	RZ203A	OK		32760	1 NO		0 P
	SYS1.SISTCLIB	22	RZ203A	OK		32760	1 NO		0 P
	SYS1.VTAMLIB	23	RZ203A	OK		32760	1 NO		0 P
	TCPIP.SEZADSIL	24	RZ203A	OK		32760	1 NO		0 P
	TCPIP.SEZALNK2	25	RZ203A	OK		32760	1 NO		0 P
	TCPIP.SEZALPA	26	RZ203A	OK		32760	1 NO		0 P

Might need attention

# DYNX Panel

```

Display Filter View Print Options Search Help
-----
SDSF DYNX DISPLAY RS84      RS84      LINE 1-22 (119)
COMMAND INPUT ==>          SCROLL ==> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
ACTION=+-Extend,/-Show,/-Block,%-RunExec,=-Repeat,A-Activate,D-Display,
ACTION=DA-DisplayAll,DAI-DisplayAllImp,DD-DisplayDiag,DI-DisplayInstallation,
ACTION=DNP-DisplayNotProgram,DP-DisplayProgram,H-Inactivate,P-Delete,
ACTION=PF-DeleteForce,U-Undefined
NP  EXITNAME      Seq ModName Active FastPath ModEPA  LoadPt  ModLen  F
    ADRDYEXT_EXIT1  1 ADRDYX01 YES    NO      91AF9070 11AF9070 00000008
    BPX_IMAGE_INIT      NO      YES      00000000 00000000 00000000
    BPX_POSPROC_INIT    NO      YES      00000000 00000000 00000000
    BPX_POST_SYSCALL    NO      NO       00000000 00000000 00000000
    BPX_PRE_SYSCALL     NO      NO       00000000 00000000 00000000
    BPX_PREPROC_INIT    1 HZSDUBEX YES    YES      91B0D49E 00000000 00000000
    BPX_PREPROC_TERM    NO      NO       00000000 00000000 00000000
    CEE_ABEND_EXIT      NO      NO       00000000 00000000 00000000
    CNZ_MSGTOSYSLOG     NO      YES      00000000 00000000 00000000
    CNZ_WTOMDBEXIT      1 MXICNZ1  YES    YES      8F9EB000 00000000 00000000
    CSF_SERVICE_EXIT    NO      YES      00000000 00000000 00000000
    CSVDYLPA           1 IGG0DLPA YES    YES      84B6F000 00000000 00000000
    CSVDYLPA           2 CELSDLPA YES    YES      837307E8 00000000 00000000
    CSVDYLPA           3 GXLINDLX YES    YES      8341D648 00000000 00000000
    CSVDYLPA           4 IKJXDLPA YES    YES      839F5B88 00000000 00000000
    CSVDYLPA           5 HASJES2L YES    YES      80C16EC0 00000000 00000000
    CSVDYNEX           1 ISGGCSXT YES    NO       854E2040 00000000 00000000
    CSVDYNEX           2 CSVLLDYX YES    NO       91AF91D8 11AF91D8 00000100
    CSVDYNEX           3 CNZM1DYX YES    NO       837CD918 00000000 00000000
    CSVDYNEX           4 CSFDYNEX YES    NO       916613D8 116613D8 00000078
    CSVFETCH           NO      YES      00000000 00000000 00000000
    CSVLLIX1           1 MXILIX1  YES    YES      8F9EE000 00000000 00000000

```

# ENQ Panel

```

Display Filter View Print Options Search Help
-----
SDSF ENQ DISPLAY RS84      RS84      MAJ SYSDSN      LINE 25-49 (144)
COMMAND INPUT ==>          SCROLL ==> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display
NP  MINOR
    ISP.SISPSENU          SYSDSN      SHR TS5485
    ISP.SISPSLIB          SYSDSN      SHR TS5485
    ISP.SISPTENU          SYSDSN      SHR TS5485
    IXGLOGR.HZS.HEALTH.CKR.LOG.RS84.RS84PLEX SYSDSN      SHR IXGLOGR
    IXGLOGR.SYSPLEX.OPERLOG.A0000015 SYSDSN      SHR IXGLOGR
    IXGLOGR.SYSPLEX.OPERLOG.RS84PLEX SYSDSN      SHR IXGLOGR
    REXX.SEAGALT          SYSDSN      SHR XCFAS
    ROCKET.PROD.CLIST      SYSDSN      SHR TS5485
    ROCKET.PROD.EXEC       SYSDSN      SHR TS5485
    ROCKET.PROD.LINKLIB    SYSDSN      SHR XCFAS
    ROCKET.USER.CLIST      SYSDSN      SHR TS5485
    ROCKET.USER.EXEC       SYSDSN      SHR TS5485
    ROCKET.USER.LINKLIB    SYSDSN      SHR XCFAS
    ROCKET.USER.SPFPLIB    SYSDSN      SHR TS5485
    RSMIS.SAXREXEC         SYSDSN      SHR AXR04
    RSMIS.SAXREXEC         SYSDSN      SHR AXR
    RSPROD.RS84.HZSPDATA    SYSDSN      EXC HZSPROC
    RSRTE.JVA7031A.ZFS     SYSDSN      SHR ZFS
    RSRTE.JVA7064A.ZFS     SYSDSN      SHR ZFS
    RSRTE.JVA8031A.ZFS     SYSDSN      SHR ZFS
    RSRTE.JVA8064A.ZFS     SYSDSN      SHR ZFS
    RSRTE.LIBDEF.CLIST     SYSDSN      SHR TS5485
    RSRTE.LIBDEF.EXEC      SYSDSN      SHR TS5485
    RSRTE.LIBDEF.ISPPLIB   SYSDSN      SHR TS5485
    RSRTE.LIBDEF.ISPTLIB   SYSDSN      SHR TS5485

```

Owned and exclusive  
highlighted

# ENQC Panel

```
Display Filter View Print Options Search Help
-----
SDSF ENQ DISPLAY RS84 CONTENTION LINE 1-3 (3)
COMMAND INPUT ==> SCROLL ==> HALF
PREFIX==* DEST=(ALL) OWNER=* SYSNAME=
NP MINOR
TS5485.TEST.LIST
TS5485.TEST.LIST
TS5485.TEST.LIST

Major Req JobName
SYSDSN EXC TS5485W
SYSDSN EXC TS5485W2
SYSDSN SHR TS5485W3
```

# Link List Panel (LNK)

Display	Filter	View	Print	Options	Search	Help
SDSF LNK DISPLAY	RS84	RS84	EXT	62	LINE 1-24 (46)	SCROLL ==> HALF
COMMAND INPUT ==>						
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=						
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DN-DisplayNames,						
ACTION=SB-ISPFBrowse,SE-ISPFEEdit						
NP	DSNAME	Seq	VolSer	BlkSize	Extent	SMS APF LRecl DSOrg
	SYS1.LINKLIB	1	RZ203A	32760	1	NO YES 0 PO
	SYS1.MIGLIB	2	RZ203A	32760	1	NO YES 0 PO
	SYS1.CSSLIB	3	RZ203A	32760	1	NO YES 0 PO
	SYS1.SIEALNKE	4	RZ203A	32760	1	NO NO 0 PO-E
	SYS1.SIEAMIGE	5	RZ203A	32760	1	NO NO 0 PO-E
	DEV RTE.HSF.PTFC0203.SISFLOAD	6	R3P1D0	6144	1	YES NO 0 PO
	RS84.LINKLIB	7	MC8400	32760	1	NO NO 0 PO
	RS RTE.LINKLIB	8	R3P100	32760	1	YES NO 0 PO
	ASM.SASMMOD1	9	RZ203A	32760	1	NO NO 0 PO
	CBC.SCCNCMP	10	RZ203A	32760	1	NO NO 0 PO
	CBC.SCLBDLL	11	RZ203A	32760	1	NO NO 0 PO
	CBC.SCLBDLL2	12	RZ203A	32760	1	NO NO 0 PO
	CEE.SCEERUN	13	RZ203A	32760	1	NO YES 0 PO
	CEE.SCEERUN2	14	RZ203A	32760	1	NO YES 0 PO-E
	CSF.SCSFMOD0	15	RZ203A	32760	1	NO YES 0 PO
	DIT.HOGB310.SDITMOD1	16	RZ203A	32760	1	NO YES 0 PO
	FFST.V120ESA.SEPWMOD2	17	RZ203A	32760	1	NO YES 0 PO
	FFST.V120ESA.SEPWMOD4	18	RZ203A	32760	1	NO NO 0 PO
	GDDM.SADMMOD	19	RZ203A	32760	1	NO NO 0 PO
	GIM.SGIMLMD0	20	RZ203A	32760	1	NO NO 0 PO
	ISP.SISPLOAD	21	RZ203A	32760	1	NO NO 0 PO
	REXX.SEAGALT	22	RZ203A	32760	1	NO YES 0 PO
	SYS1.CMDLIB	23	RZ203A	32760	1	NO NO 0 PO
	SYS1.DFQLLIB	24	RZ203A	32760	1	NO NO 0 PO

Concatenation  
sequence

# LPA Panel

```

Display Filter View Print Options Search Help
-----
SDSF LPA DISPLAY RS84      RS84      EXT      30      LINE 1-13 (13)
COMMAND INPUT ==>          SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,SB-ISPFBrowse,SE-ISPFEdit
NP  DSNAME                      Seq VolSer BlkSize Extent SMS APF LRecL DSOrg Rec
   SYS1.LPALIB                   1 RZ203A  32760      1 NO NO      0 PO  U
   RSRTE.LPALIB                   2 R3P104  32760     10 YES NO      0 PO  U
   SYS1.SERBLPA                   3 RZ203A  32760      3 NO NO      0 PO  U
   SYS1.SBDTLPA                   4 RZ203A  32760      1 NO NO      0 PO  U
   CEE.SCEELPA                    5 RZ203A  32760      1 NO NO      0 PO  U
   ISP.SISPLPA                    6 RZ203A  32760      1 NO NO      0 PO  U
   TCPIP.SEZALPA                   7 RZ203A  32760      1 NO NO      0 PO  U
   RSRTE.VENDOR.XDC.XDCPLPA       8 R3P103  32760      5 YES NO      0 PO  U
   SYS1.SORTLPA                    9 RZ203A  32760      2 NO NO      0 PO  U
   SYS1.SDWWDLPA                  10 RZ203A  32760      1 NO NO      0 PO  U
   SYS1.SICELPA                   11 RZ203A  32760      1 NO NO      0 PO  U
   SYS1.SIATLPA                   12 RZ203A  32760      2 NO NO      0 PO  U
   ISF.SISFLPA                    13 RZ203A  32760      1 NO NO      0 PO  U

```

# Page Data Sets (PAG)

```

Display Filter View Print Options Search Help
-----
SDSF PAG DISPLAY RS84      RS84      LINE 1-3 (3)
COMMAND INPUT ===>          SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DC-DisplayCommon,
ACTION=DD-DisplayPageDel,DL-DisplayLocal,DP-DisplayPLPA,DS-DisplaySCM
NP  DSNAME      Type      Slots      Used      Use% VolSer Status      VIO IOError
   RS84.PAGE.PLPA  PLPA        179        179      100 PG8400 OK          NO      0
   RS84.PAGE.COMMON COMMON    199799    15925       7 PG8400 OK          NO      0
   RS84.PAGE.LOCAL  LOCAL     600659         0       0 PG8401 OK          YES      0

```

# Parmlib Data Sets (PARM)

```

Display Filter View Print Options Search Help
-----
SDSF PAG DISPLAY RS84      RS84      LINE 1-3 (3)
COMMAND INPUT ===>          SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DC-DisplayCommon,
ACTION=DD-DisplayPageDel,DL-DisplayLocal,DP-DisplayPLPA,DS-DisplaySCM
NP  DSNAME      Type      Slots      Used      Use% VolSer Status      VIO IOError
   RS84.PAGE.PLPA  PLPA        179        179      100 PG8400 OK        NO      0
   RS84.PAGE.COMMON COMMON    199799    15925       7 PG8400 OK        NO      0
   RS84.PAGE.LOCAL  LOCAL     600659         0       0 PG8401 OK        YES     0

```



# Proclib Data Sets (PROC)

```

Display Filter View Print Options Search Help
-----
SDSF PAG DISPLAY RS84      RS84      LINE 1-3 (3)
COMMAND INPUT ===>          SCROLL ===> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DC-DisplayCommon,
ACTION=DD-DisplayPageDel,DL-DisplayLocal,DP-DisplayPLPA,DS-DisplaySCM
NP  DSNAME      Type      Slots      Used      Use% VolSer Status      VIO IOError
   RS84.PAGE.PLPA  PLPA        179        179      100 PG8400 OK        NO      0
   RS84.PAGE.COMMON COMMON    199799    15925       7 PG8400 OK        NO      0
   RS84.PAGE.LOCAL  LOCAL     600659         0       0 PG8401 OK        YES     0

```

# SYS Panel

```

Display Filter View Print Options Search Help
-----
SDSF SYS DISPLAY RS84      RS84      LINE 1-1 (1)
COMMAND INPUT ===>          SCROLL ===> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-DisplayIPL,DAA-DisplayAll,
ACTION=DAL-DisplayList,DALO-DisplayAlloc,DC-DisplayConsoles,DCEE-DisplayLE,
ACTION=DD-DisplayDump,DEM-DisplayEMCS,DG-DisplayGRS,DI-DisplayIOS,
ACTION=DIQP-DisplayIQP,DLL-DisplayLLA,DLO-DisplayLogger,DLR-DisplayLogrec,
ACTION=DM-DisplayConfig,DMP-DisplayMPF,DO-DisplayOMVS,DP-DisplayProd,
ACTION=DPCD-DisplayPCIEDev,DPCI-DisplayPCIE,DSF-DisplaySMF,DSL-DisplaySlip,
ACTION=DSM-DisplaySMS,DSY-DisplaySymbols,DT-DisplayTime,DTO-DisplayTSOptions,
ACTION=DTR-DisplayTrace,DTS-DisplayTSUsers,DW-DisplayWLM,DX-DisplaySysplex
NP  SYSNAME  SysLevel  CPU%      SIO Aux% CSA% SQA% ECSA% ESQA% UIC  Spool%
   RS84      z/OS 02.03   54         0    0   14   19    21    89 65535    2

```

# SRCH Command

- New in SDSF V2R1 and V2R2 SPE
- Finds a member in a data set list
  - Module in Inklst or LPA
  - Entry in APF list
  - Member in parmlib or proclib

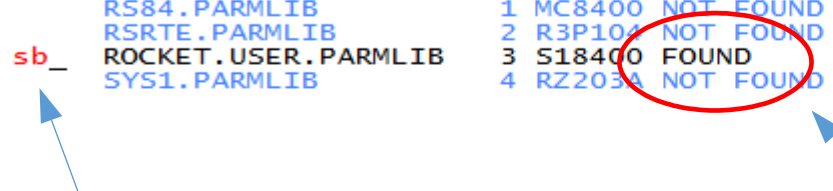
# SRCH Command

```
Display Filter View Print Options Search Help
-----
SDSF PARMLIB DISPLAY R584 R584 EXT 20 LINE 1-4 (4)
COMMAND INPUT ==> srch isfprm00 SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SYNAME=
NP DSNAME Seq VolSer BlkSize Extent SMS LRecL DSOrg RecFm CrDate
R584.PARMLIB 1 MC8400 27920 2 NO 80 PO FB 2016.0
RSRTE.PARMLIB 2 R3P104 27920 1 YES 80 PO FB 2007.0
ROCKET.USER.PARMLIB 3 S18400 23440 16 YES 80 PO FB 2016.0
SYS1.PARMLIB 4 RZ203A 27920 1 NO 80 PO FB 2015.2
```

Member or pattern to find

# SRCH Command

```
Display Filter View Print Options Search Help
-----
SDSF SRCH DISPLAY ISFPRM00
COMMAND INPUT ==>
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
NP DSNNAME Seq VolSer Status DSOrg BlkSize Extent SMS L
  RS84.PARMLIB 1 MC8400 NOT FOUND PO 27920 2 NO
  RSRTE.PARMLIB 2 R3P104 NOT FOUND PO 27920 1 YES
  sb_ ROCKET.USER.PARMLIB 3 S18400 FOUND PO 23440 16 YES
  SYS1.PARMLIB 4 RZ203A NOT FOUND PO 27920 1 NO
```



Use SB action to  
browse or SE to edit  
the member

Member was found in this  
data set

# SRCH Command

```

Menu  Utilities  Compilers  Help
BROWSE      ROCKET.USER.PARMLIB(ISFPRM00) - 01.01      Line 0000000000 Col 001 080
Command ==>                                     Scroll ==> PAGE
***** Top of Data *****
/*
/*          Sample SDSF Initialization Statements          */
/*
/*  Proprietary Statement =                               */
/*
/*    Licensed Materials - Property of IBM                */
/*    5650-ZOS                                              */
/*    Copyright IBM Corp. 1981, 2017.                      */
/*
/*    Status = HQX77B0                                     */
/*
/*  EXTERNAL CLASSIFICATION = OTHER                        */
/*  END OF EXTERNAL CLASSIFICATION:                        */
/*
/*  This is a sample SDSF parameter definition.  It is equivalent
/*  to the macros supplied in ISFPARMS.
/*
/*  To use this member, copy it to SYS1.PARMLIB or a dataset
/*  concatenated to it and edit the member as appropriate.
/*  Alternatively, you can modify the SDSF server JCL to point
/*  to a data set that contains the member.
/*
/*  Note that, even with conditional processing, if you want
/*  to use a common member with different levels of SDSF, you

```

# New Function in V2R3

- Usability enhancements
- New tabular panels
- Miscellaneous new columns and actions

# Usability Enhancements

- Scrollable main panel
- Reorganized options pull-down
- Fixed field point-and-shoot
- Show column values pop-up (/ action character)



# Scrollable Main Panel

Display Filter View Print Options Search Help				
SDSF MENU V2R3M0 RS84PLEX RS84				
COMMAND INPUT ==>				
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=				
NP	NAME	Description	Group	Status
	DA	Active users	Jobs	
	I	Input Queue	Jobs	
	O	Output Queue	Output	
	H	Held output Queue	Output	
	ST	Status of jobs	Jobs	
	JG	Job groups	JES	
	SYM	System symbols	System	
	LOG	System log	Log	
	SR	System requests	Log	
	MAS	Members in the MAS	JES	
	JC	Job classes	JES	
	SE	Scheduling environments	WLM	
	RES	WLM resources	WLM	
	ENC	Enclaves	WLM	
	PS	Processes	OMVS	
	SYS	System information	System	
	ENQ	Enqueues	System	
	DYNX	Dynamic exits	System	
	AS	Address space memory	Jobs	
	INIT	Initiators	JES	
	PR	Printers	JES	
	PUN	Punches	JES	
	RDR	Readers	JES	
	LINE	Lines	Network	
	NODE	Nodes	Network	
	SO	Spool offload	JES	

SDSF release, sysplex  
name, system name

Point-and-shoot to select

Classification

# Scrollable Main Panel

```

Display Filter View Print Options Search Help
-----
SDSF MENU V2R3M0 RS84PLEX RS84 LINE 1-26 (49)
COMMAND INPUT ==> sort name SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SORT=NAME/A SYSNAME=
NP NAME Description Group Status
APF APF data sets System
AS Address space memory Jobs
CK Health checker System
CSR Common storage remaining Memory
DA Active users Jobs
DEV Device activity Devices
DYNX Dynamic exits System
ENC Enclaves WLM
ENQ Enqueues System
FS File systems OMVS
GT Generic tracker System
H Held output Queue Output
I Input Queue Jobs
INIT Initiators JES
JC Job classes JES
JG Job groups JES
LINE Lines Network
LNK Link list data sets System
LOG System log Log
LPA Link pack data sets System
MAS Members in the MAS JES
NA Network activity Network
NC Network connections Network
NODE Nodes Network
NS Network servers Network
O Output Queue Output

```

Sort by name

Select using action  
character

# Scrollable Main Panel

```
Display Filter View Print Options Search Help
-----
SDSF MENU V2R3M0 RS84PLEX RS84 LINE 1-4 (4)
COMMAND INPUT ==> S 1* SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SORT=NAME/A SYSNAME=
NP NAME Description Group Status
LINE Lines Network
LNK Link list data sets System
LOG System log Log
LPA Link pack data sets System
```

Fast path select: list all  
commands that start with "I"

# Scrollable Main Panel

Display Filter View Print Options Search Help				
-----				
SDSF MENU V2R3M0 RS84PLEX RS84			LINE 1-12 (12)	
COMMAND INPUT ==> s * j*			SCROLL ==> HALF	
PREFIX==*	DEST=(ALL)	OWNER=*	SORT=NAME/A	SYSNAME=
NP	NAME	Description	Group	Status
	INIT	Initiators	JES	
	JC	Job classes	JES	
	JG	Job groups	JES	
	J0	Job zero	JES	JES3 environment only
	MAS	Members in the MAS	JES	
	PR	Printers	JES	
	PROC	Proclib data sets	JES	
	PUN	Punches	JES	
	RDR	Readers	JES	
	RM	Resource monitor	JES	
	SO	Spool offload	JES	
	SP	Spool volumes	JES	

Fast path select: list all commands in the JES group

# Scrollable Main Panel

```

Display Filter View Print Options Search Help
-----
SDSF MENU V2R3M0 RS84PLEX RS84 LINE 1-26 (50)
COMMAND INPUT ==> set menu all SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* - SORT=NAME/A SYSNAME=
NP NAME Description Group Status
APF APF data sets System
AS Address space memory Jobs
CK Health checker System
CSR Common storage remaining Memory
DA Active users Jobs
DEV Device activity Devices
DYNX Dynamic exits System
ENC Enclaves WLM
ENQ Enqueues System
FS File systems OMVS
GT Generic tracker System
H Held output Queue Output
I Input Queue Jobs
INIT Initiators JES
JC Job classes JES
JG Job groups JES
JO Job zero JES
LINE Lines Network
LNK Link list data sets System
LOG System log Log
LPA Link pack data sets System
MAS Members in the MAS JES
NA Network activity Network
NC Network connections Network
NODE Nodes Network
NS Network servers Network

```

set menu command to  
show/hide available  
options

JES3 environment only

# Scrollable Main Panel

```

Display Filter View Print Options Search Help
-----
SDSF MENU V2R3M0 RS84PLEX RS84 LINE 1-26 (49)
COMMAND INPUT ==> set menu hide SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
NP NAME Description Group Status
DA Active users Jobs
I Input Queue Jobs
O Output Queue Output
H Held output Queue Output
ST Status of jobs Jobs
JG Job groups JES
SYM System symbols System
LOG System log Log
SR System requests Log
MAS Members in the MAS JES
JC Job classes JES
SE Scheduling environments WLM
RES WLM resources WLM
ENC Enclaves WLM
PS Processes OMVS
SYS System information System
ENQ Enqueues System
DYNX Dynamic exits System
AS Address space memory Jobs
INIT Initiators JES
PR Printers JES
PUN Punches JES
RDR Readers JES
LINE Lines Network
NODE Nodes Network
SO Spool offload JES

```

J0 option not shown since  
not applicable

# Reorganized Options Pull-down

```

Display  Filter  View  Print  Options  Search  Help
-----
SDSF MENU V2R3M0  RS84PLEX RS
COMMAND INPUT ==>
PREFIX=** DEST=(ALL) OWNER=
NP  NAME      Description
DA  Active users
I   Input Queue      Jobs
O   Output Queue     Output
H   Held output Queue Output
ST  Status of jobs   Jobs
JO  Job zero         JES
JG  Job groups       JES
SYM System symbols    System
LOG System log        Log
SR  System requests  Log
MAS Members in the MAS JES
JC  Job classes      JES
SE  Scheduling environments WLM
RES WLM resources     WLM
ENC Enclaves          WLM
PS  Processes        OMVS
SYS System information System
ENQ Enqueues          System
DYNX Dynamic exits    System
AS  Address space memory Jobs
INIT Initiators       JES
PR  Printers         JES
PUN Punches          JES
RDR Readers           JES
LINE Lines            Network
NODE Nodes            Network
  
```

(50)  
 ROLL ==> HALF

- 1. General...  
 2. Browse and Print...  
 3. Screen...  
 4. Console and Response...

JES3 environment only

Options are  
grouped

# Reorganized Options Pull-down

Display	Filter	View	Print	Options	Search	Help
SDSF MENU	V2R3M0	RS84PLEX RS		<u>3</u> 1. General...		(49)
COMMAND INPUT	==>			2. Browse and Print...		ROLL ==> HALF
PREFIX=**	DEST=(ALL)	OWNER=		3. Screen...		
NP	NAME	Description		4. Console and Response...		
DA		Active users				
I		Input Queue		Jobs		
O		Output Queue		Output		
H		Held output Queue		Output		
ST		Status of jobs		Jobs		
JG		Job groups		JES		
SYM		System symbols		System		
LOG		System log		Log		
SR		System requests		Log		
MAS		Members in the MAS		JES		
JC		Job classes		JES		
SE		Scheduling environments		WLM		
RES		WLM resources		WLM		
ENC		Enclaves		WLM		
PS		Processes		OMVS		
SYS		System information		System		
ENQ		Enqueues		System		
DYNX		Dynamic exits		System		
AS		Address space memory		Jobs		
INIT		Initiators		JES		
PR		Printers		JES		
PUN		Punches		JES		
RDR		Readers		JES		
LINE		Lines		Network		
NODE		Nodes		Network		
SO		Spool offload		JES		



# Reorganized Options Pull-down

Display Filter View Print Options Search Help

```
SDSF MENU V2R3M0 RS84PLE
COMMAND INPUT ==>
PREFIX=** DEST=(ALL) OW
NP NAME Description
DA Active user
I Input Queue
O Output Queue
H Held output
ST Status of j
JG Job groups
SYM System symb
LOG System log
SR System requ
MAS Members in
JC Job classes
SE Scheduling
RES WLM resourc
ENC Enclaves
PS Processes
SYS System information
ENQ Enqueues
DYNX Dynamic exits
AS Address space memory
INIT Initiators
PR Printers
PUN Punches
RDR Readers
LINE Lines
NODE Nodes
SO Spool offload
```

Option ==> Screen Options

- 1 Set action character display...
- 2 Set cursor option...
- 3 Change cursor sort to OFF
- 4 Set date format...
- 5 Set display values...
- 6 Change row numbering to ON
- 7 Set screen characteristics...
- 8 Change show menu items to ALL
- 9 Change fixed field point and shoot to OFF

F1=Help F12=Cancel

Use the pull-down in case you can't remember the command!

# Fixed Field Point-and-Shoot

- Fixed field on several panels enabled for point-and-shoot (ISPF only)
- Convenient way to navigate to another panel

• Panel	• Target
• DA, I, ST, O, H, J0	• JDS
• JG	• Job Dependencies
• JC	• ST
• SE	• RES
• AS	• Job Memory
• CK	• CKH
• SMSG	• SMSV
• JDS	• Output data set
• SRCH	• ISPF browse

# Fixed Field Point-and-Shoot

Display Filter View Print Options Search Help

---

SDSF STATUS DISPLAY ALL CLASSES SET COMMAND COMPLETE  
 COMMAND INPUT ===> SCROLL ===> HALF

PREFIX=\*\* DEST=(ALL) OWNER=\* SYSNAME=

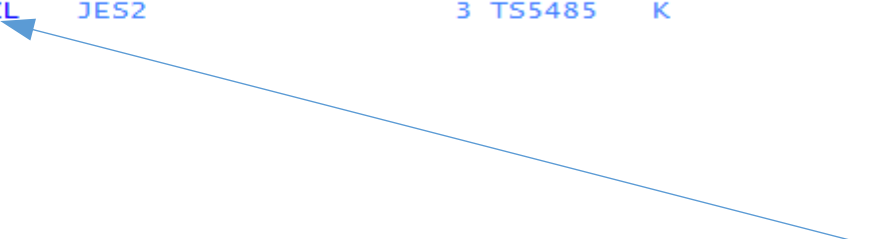
NP	JOBNAME	JobID	Owner	Prty	Queue	C	Pos	SAff	ASys	Status
	MAILJOB	JOB06769	TS5485	9	EXECUTION	F	1			
	TS5485	TSU02857	TS5485	15	EXECUTION			R584	R584	
	PDSCOT	TSU02860	PDSCOT	15	EXECUTION			R584	R584	
	HZSPROC	STC02785	HZSPROC	15	EXECUTION			R584	R584	
	VTAM	STC02787	VTAM	15	EXECUTION			R584	R584	
	SYSLLOG	STC02789	+MASTER+	15	EXECUTION			R584	R584	
	INIT	STC02790	INIT	15	EXECUTION			R584	R584	
	INIT	STC02791	INIT	15	EXECUTION			R584	R584	
	INIT	STC02792	INIT	15	EXECUTION			R584	R584	
	INIT	STC02793	INIT	15	EXECUTION			R584	R584	
	INIT	STC02794	INIT	15	EXECUTION			R584	R584	
	INIT	STC02795	INIT	15	EXECUTION			R584	R584	
	INIT	STC02796	INIT	15	EXECUTION			R584	R584	
	INIT	STC02797	INIT	15	EXECUTION			R584	R584	
	INIT	STC02798	INIT	15	EXECUTION			R584	R584	
	INIT	STC02799	INIT	15	EXECUTION			R584	R584	
	AXR04	STC02800	+++++++	15	EXECUTION			R584	R584	
	BPXAS	STC02801	BPXAS	15	EXECUTION			R584	R584	
	BPXAS	STC02802	BPXAS	15	EXECUTION			R584	R584	
	BPXAS	STC02804	BPXAS	15	EXECUTION			R584	R584	
	RMF	STC02806	RMF	15	EXECUTION			R584	R584	
	CSF	STC02807	CSFUSER	15	EXECUTION			R584	R584	
	TSO	STC02808	+++++++	15	EXECUTION			R584	R584	
	TCPIP	STC02809	TCPIP	15	EXECUTION			R584	R584	
	ASCHINT	STC02811	+++++++	15	EXECUTION			R584	R584	
	ASCHINT	STC02812	+++++++	15	EXECUTION			R584	R584	

Point-and-Shoot  
enabled (turquoise)

Put cursor here and  
press enter

# Fixed Field Point-and-Shoot

```
Display Filter View Print Options Search Help
-----
SDSF JOB DATA SET DISPLAY - JOB MAILJOB (JOB06769) LINE 1-2 (2)
COMMAND INPUT ===> SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
NP DDNAME StepName ProcStep DSID Owner C Dest Rec-Cnt Page
   JESMSG LG JES2 2 TS5485 K 2
   JESJCL JES2 3 TS5485 K 7
```



Put cursor here and  
press enter

# Fixed Field Point-and-Shoot ...

```
_ Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY MAILJOB JOB06769 DSID      3 LINE 0      COLUMNS 02- 81
COMMAND INPUT ==>      SCROLL ==> HALF
***** TOP OF DATA *****
1 //MAILJOB JOB  'ACCT#','KEN.JONAS',
  //              MSGCLASS=K,NOTIFY=TS5485,CLASS=F,
  //              EMAIL='kjonas@rocketsoftware.com'
2 // SET SYSEMAIL=kjonas@rocketsoftware.com      GENERATED STATEME
3 //SYSEMAIL EXPORT EXPSET=kjonas@rocketsoftware.com  GENERATED STATEME
  //*
4 //BR14      EXEC  PGM=IEFBR14
***** BOTTOM OF DATA *****
```

# Show Columns Pop-Up

- New show column values pop-up
- Access with / action character (ISPF only)
- Displays all columns and their values in a scrollable pop-up
- Long values are split across multiple lines
- Multiple column values shown on consecutive rows
- Especially useful on panel with many columns

# Show Columns Pop-Up

```

Display Filter View Print Options Search Help
-----
SDSF HEALTH CHECKER DISPLAY  RS84          LINE 47-72 (196)
COMMAND INPUT ==>                          SCROLL ==> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
NP  NAME                                     CheckOwner  State  Statu
DAE_SHAREDSN                               IBMDAE       ACTIVE (ENABLED)  SUCCE
DAE_SUPPRESSING                             IBMDAE       ACTIVE (ENABLED)  SUC
DMO_REFUCB                                  IBMDMO       ACTIVE (ENABLED)  SUC
DMO_TAPE_LIBRARY_INIT_ERRORS                IBMDMO       ACTIVE (ENABLED)  SUC
GRS_AUTHQLVL_SETTING                        IBMGRS       ACTIVE (ENABLED)  EXC
GRS_CONVERT_RESERVES                        IBMGRS       INACTIVE (ENABLED)  INA
GRS_EXIT_PERFORMANCE                       IBMGRS       ACTIVE (ENABLED)  SUC
GRS_GRSQ_SETTING                            IBMGRS       ACTIVE (DISABLED)  ENV
GRS_MODE                                    IBMGRS       ACTIVE (ENABLED)  EXC
GRS_RNL_IGNORED_CONV                       IBMGRS       ACTIVE (ENABLED)  SUCCE
GRS_SYNCHRES                               IBMGRS       ACTIVE (ENABLED)  SUCCE
ICSF_COPROCESSOR_STATE_NEGCHANGE            IBMICSF      ACTIVE (ENABLED)  SUCCE
ICSF_DEPRECATED_SERV_WARNINGS               IBMICSF      ACTIVE (ENABLED)  SUCCE
ICSF_KEY_EXPIRATION                        IBMICSF      ACTIVE (ENABLED)  SUCCE
ICSF_MASTER_KEY_CONSISTENCY                 IBMICSF      ACTIVE (ENABLED)  SUCCE
ICSF_OPTIONS_CHECKS                        IBMICSF      ACTIVE (ENABLED)  SUCCE
ICSF_UNSUPPORTED_CCA_KEYS                  IBMICSF      ACTIVE (ENABLED)  SUCCE
ICSMIG7731_ICSF_RETAINED_RSAKEY            IBMICSF      ACTIVE (ENABLED)  SUCCE
IEA_ASIDS                                   IBMSUP       ACTIVE (ENABLED)  SUCCE
IEA_LXS                                     IBMSUP       ACTIVE (ENABLED)  SUCCE
IOS_CAPTUCB_PROTECT                        IBMIOS       ACTIVE (ENABLED)  SUCCE
IOS_CMRTIME_MONITOR                        IBMIOS       ACTIVE (ENABLED)  SUCCE
IOS_DYNAMIC_ROUTING                        IBMIOS       ACTIVE (ENABLED)  SUCCE
IOS_FABRIC_MONITOR                         IBMIOS       ACTIVE (ENABLED)  SUCCE
IOS_MIDAW                                  IBMIOS       ACTIVE (ENABLED)  SUCCE
IOS_STORAGE_IOSBLKS                        IBMIOS       ACTIVE (ENABLED)  SUCCE

```

Enter / action  
character

# Show Columns Pop-Up

```

Display  Filter  View  Print  Options  Search  Help
                                         Show Columns                               Row 29 to 41 of 41
Command ==> _____
Sort column with F5. Use Locate to position to column.

- All values      - Column width
Column           ##  Value
ProcName         01  HZSPROC
TaskId           01  HZSPROC
Reason           01  If an entry in the RESERVE Conversion RNL is super
                    seded by an entry in the SYSTEMS Exclusion RNL, it
                    will be ignored.
ParmLen          01  0
SysLevel         01  z/OS 02.03.00 HBB77B0
SysName          01  RS84
EInterval        01  SYSTEM
Locale           01  HZSPROC
Origin           01  HZSADDCK
Verbose          01  NO
LogStream        01  HZS.HEALTH.CKR.LOG.RS84
***** Bottom of data *****

IEA_LXS          IBMSUP          ACTIVE (ENABLED)  SUCCE
IOS_CAPTUCB_PROTECT  IBMIOS          ACTIVE (ENABLED)  SUCCE
IOS_CMRTIME_MONITOR  IBMIOS          ACTIVE (ENABLED)  SUCCE
IOS_DYNAMIC_ROUTING  IBMIOS          ACTIVE (
IOS_FABRIC_MONITOR   IBMIOS          ACTIVE (
IOS_MIDAW            IBMIOS          ACTIVE (
IOS_STORAGE_IOSBLKS  IBMIOS          ACTIVE (

```

Only non-null values are shown (option not selected)

Long values are wrapped



# Show Columns Pop-Up

Display Filter View Print Options Search Help

Command ==> 1 reason Show Columns Row 15 to 28 of 48

Sort column with F5. Use Locate to position to column.

— All values — Column width

Column	##	Value
ModifiedBy	01	STMT(18)
WTONum	01	0
NumCat	01	5
Category	01	A
Category	02	B
Category	03	C
Category	04	D
Category	05	E
Category2	01	B
Category3	01	C
Category4	01	D
ExitName	01	ISFHCADC
ModName	01	ISFHCSAF
MsgName	01	ISFHCMMSG

USS\_HFS\_DETECTED  
USS\_KERNEL\_PVTSTG\_THRESHOLD  
USS\_KERNEL\_RESOURCES\_THRESHOLD  
USS\_KERNEL\_STACKS\_THRESHOLD  
USS\_MAXSOCKETS\_MAXFILEPROC  
USS\_PARMLIB  
USS\_PARMLIB\_MOUNTS

Value number

Locate command to position to a column

Column has multiple values

# Show Columns Pop-Up

```

Display  Filter  View  Print  Options  Search  Help
Show Columns                                     Row 39 to 48 of 48
Command ==> _____
Sort column with F5. Use Locate to position to column.
- All values      - Column width
Column            ##  Value
Reason            01  Verify SAF class SDSF is active
UpdateReason      01  WE DONT USE IT
ParmLen           01  0
SysLevel          01  z/OS 02.03.00 HBB77B0
SysName           01  RS84
EInterval         01  SYSTEM
Locale            01  HZSPROC
Origin            01  HZSADDCK
Verbose           01  NO
LogStream         01  HZS.HEALTH.CKR.LOG.RS84
***** Bottom of data *****

```

Panel positioned to  
located column

```

USS_HFS_DETECTED
USS_KERNEL_PVTSTG_THRESHOLD
USS_KERNEL_RESOURCES_THRESHOLD
USS_KERNEL_STACKS_THRESHOLD
USS_MAXSOCKETS_MAXFILEPROC
USS_PARMLIB
USS_PARMLIB_MOUNTS

```

# Show Columns Pop-Up ...

Display Filter View Print Options Search Help

Command ==> Show Columns Row 27 to 39 of 69

Sort column with F5. Use Locate to position to column.

/ All values - Column width

Column	##	Value
ExcCount	01	0
ExecName	01	
ExitName	01	ISGHCADC
EInterval	01	SYSTEM
Fail	01	0
Global	01	YES
GlobalSys	01	RS84
Interval	01	ONETIME
Locale	01	HZSPROC
Log-Date-Time	01	01/31/2017 08:54:33
LogStream	01	HZS.HEALTH.CKR.LOG.RS84
ModifiedBy	01	
ModName	01	ISGHCGRS

F1=Help F5=SortCol F7=Backward F8=Forward F12=Cancel

IOS\_FABRIC\_MONITOR IBMIOS ACTIVE (ENABLED) SUCCE  
 IOS\_MIDAW IBMIOS ACTIVE (ENABLED) SUCCE  
 IOS\_STORAGE\_IOSBLKS IBMIOS ACTIVE (ENABLED) SUCCE  
 IXGLOGR\_ENTRYTHRESHOLD IBMIXGLOGR INACTIVE (ENABLED) INACT  
 IXGLOGR\_STAGINGDSFULL IBMIXGLOGR INACTIVE (ENABLED) INACT  
 IXGLOGR\_STRUCTUREFULL IBMIXGLOGR ACTIVE (ENABLED) SUCCE  
 JES2\_UPGRADE\_CKPT\_LEVEL\_JES2 IBMJES2 ACTIVE (ENABLED) SUCCE

Press F5 to sort by column.  
Heading underlined when sorted.

# New Tabular Panels in V2R3

- New tabular panels and commands
- New secondary panels

# Tabular Panels

- Device Activity
- File Systems
- Generic Tracker
- Network Activity
- SMS Groups
- SMS Volumes
- Subsystems



# Tabular Panels ...

- XCF Connections
- XCF Structures
- Common Storage Remaining
- Virtual Storage Map
- Job Modules (CDEs)
- Job Tasks (TCBs)



# Device Activity Panel

- DEV command
  - Default is show all online DASD devices
  - Use DEV ACT to only show active devices
  - Sysplex wide using SYSNAME pattern
- Actions to display device, vary online or offline

# Device Activity Panel

```

Display Filter View Print Options Search Help
-----
SDSF DEVICE ACTIVITY RS84 RS84 LINE 1-23 (78)
COMMAND INPUT ==> SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,/-Block,%-RunExec,=-Repeat,D-Display,DA-DisplayAlloc
ACTION=DI-DisplayIPL,DSP-DevServPath,DSQD-DevServQDasd,DSQP-DevServQPath,
ACTION=DSS-DevServSMS,V-VaryOn,VF-VaryOff
NP VOLSER Unit StorGrp IOIntens QIntens SSCH Response IOSQ Connec
DM8400 690E DMPG1 0.000 0.000 0.000 0.000 0.000 0.000
D1XF00 D190 0.000 0.000 0.000 0.000 0.000 0.000
D1XF01 D191 0.000 0.000 0.000 0.000 0.000 0.000
D1XF02 D419 0.000 0.000 0.000 0.000 0.000 0.000
D1XF03 D5B6 0.000 0.000 0.000 0.000 0.000 0.000
HCP100 6132 0.000 0.000 0.000 0.000 0.000 0.000
JS8400 6C12 0.510 0.102 0.797 0.640 0.000 0.512
J38400 6C13 0.000 0.000 0.000 0.000 0.000 0.000
MC8400 6C0E 0.737 0.203 1.992 0.371 0.000 0.268
PG8400 68CA 0.000 0.000 0.000 0.000 0.000 0.000
PG8401 690D 0.000 0.000 0.000 0.000 0.000 0.000
RBRTE1 63A6 0.000 0.000 0.000 0.000 0.000 0.000
RBRTE2 63A7 0.000 0.000 0.000 0.000 0.000 0.000
RBRTE3 63A8 0.000 0.000 0.000 0.000 0.000 0.000
RBRTE4 63A9 0.000 0.000 0.000 0.000 0.000 0.000
RBRTE5 9085 0.000 0.000 0.000 0.000 0.000 0.000
RBRTE6 9087 0.000 0.000 0.000 0.000 0.000 0.000
RZ112A 6700 0.000 0.000 0.000 0.000 0.000 0.000
RZ112B 6701 0.000 0.000 0.000 0.000 0.000 0.000
RZ113A 6100 0.000 0.000 0.000 0.000 0.000 0.000
RZ113B 6101 0.000 0.000 0.000 0.000 0.000 0.000
RZ113C 6A0B 0.000 0.000 0.000 0.000 0.000 0.000
RZ113D 6A04 0.000 0.000 0.000 0.000 0.000 0.000

```

Active devices  
are highlighted



# Device Activity Panel

Display Filter View Print Options Search Help		
Command ==> _____		Show Columns Row 1 to 14 of 16
Sort column with F5. Use Locate to position to column.		
/ All values      - Column width		
Column	##	Value
VOLSER	01	MC8400
Unit	01	6C0E
StorGrp	01	
IOIntens	01	5.956
QIntens	01	1.608
SSCH	01	14.114
Response	01	0.422
IOSQ	01	0.000
Connect	01	0.308
Disc	01	0.000
Pending	01	0.114
Util%	01	0.43
Resv%	01	0.00
PAVNum	01	1

# Network Activity Panel

- NA command
- Shows all network activity in the system
  - Sysplex wide using SYSNAME pattern
- Actions to display information about the connection

# Network Activity Panel

```

Display Filter View Print Options Search Help
-----
SDSF NETWORK ACTIVITY R584 R584 LINE 1-22 (25)
COMMAND INPUT ==> SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,/--Block,%-RunExec,=-Repeat,DA-DisplayAll,
ACTION=DAL-DisplayAllFmtL,DB-DisplayByteInfo,DBL-DisplayByteInfoFmtL,
ACTION=DN-DisplayConn,DNL-DisplayConnFmtL,DR-DisplayRoute,
ACTION=DRD-DisplayRouteDetail,DRDL-DisplayRouteDetailFmtL,DRL-DisplayRouteF
NP  JOBNAME  Status  IPAddr  Port  InBufSz  OutBufSz  EXCP
BPXOINIT  LISTEN  0.0.0.0  10007  0  0  0
FTPD1     LISTEN  ::0      21     0  0  0
INETD1    LISTEN  10.253.253.242  512  0  0  0
INETD1    LISTEN  0.0.0.0  513    0  0  0
INETD1    LISTEN  0.0.0.0  1023   0  0  0
MXITCP    LISTEN  0.0.0.0  8161   0  0  0
MXITCP    ESTABLSH 192.168.55.21  8161  65536  65536  59539
MXITCP    ESTABLSH 192.168.55.22  8161  65536  65536  59544
MXITCP    ESTABLSH 192.168.55.23  8161  65536  65536  59540
MXITCP    ESTABLSH 192.168.55.25  8161  65536  65536  59539
MXITCP    ESTABLSH 192.168.55.27  8161  65536  65536  59540
MXITCP    ESTABLSH 192.168.55.28  8161  65536  65536  59543
MXITCP    ESTABLSH 192.168.55.140  8161  65536  65536  59570
OSNMPD    LISTEN  ::0      1026   0  0  0
OSNMPD    UDP      ::FFFF:172.16.37.132  46819  0  0  8656
PORTMAP    UDP      0  0  0  0
PORTMAP    LISTEN  0.0.0.0  111    0  0  0
SNMPQE    UDP      0  0  0  0
SNMPQE    UDP      0  0  0  0
SNMPQE    LISTEN  0.0.0.0  1024   0  0  0
SSHD3     LISTEN  0.0.0.0  22     0  0  0
SSHD3     LISTEN  ::0      22     0  0  0

```

Valid actions for panel.  
Use set action to enable

# Network Activity Panel

Display Filter View Print Options Search Help		
Show Columns		Row 1 to 14 of 21
Command ==> _____		
Sort column with F5. Use Locate to position to column.		
/ All values      - Column width		
Column	##	Value
JOBNAME	01	TN3270
Status	01	ESTABLISH
IPAddr	01	::FFFF:10.5.4.171
Port	01	50949
InBufSz	01	65536
OutBufSz	01	65536
EXCP-Cnt	01	4821
BytesIn	01	26149
BytesOut	01	1008553
App1	01	A84TS001
LUName	01	S84TCP01
Client	01	
App1Data	01	EZBTNSRV S84TCP01 A84TS001 ET B
Stack	01	TCPIP

# Network Activity Panel

```
Display Filter View Print Options Search Help
Show Columns Row 15 to 21 of 21
Command ==>
Sort column with F5. Use Locate to position to column.
/ All values - Column width
Column      ##  Value
ASID         01   85
ASIDX        01  0055
ResourceID   01  0000002E
Start-Time   01  01/31/2017 13:55:24
Last-Time    01  01/31/2017 22:11:48
SysName      01  RS84
SysLevel     01  z/OS 02.03.00 HBB77B0
***** Bottom of data *****
```

# File Systems

- FS command
- Shows information about OMVS file systems
  - Sysplex wide using SYSNAME pattern

# File Systems

```

Display Filter View Print Options Search Help
-----
SDSF FILE SYSTEM DISPLAY RS84 RS84 LINE 1-18 (18)
COMMAND INPUT ===> SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DA-DisplayAll,
ACTION=DE-DisplayException
NP  DEVICE Path                                Type      Mode Owner      Name
  1      /                                ZFS        RDWR RS84      RS84.FI
  8      /proj                            AUTOMNT     RDWR RS84      *AMD/pr
 18      /rsetc/ssh                        HFS         READ RS84      RSRTE.S
  9      /rsopt                            AUTOMNT     RDWR RS84      *AMD/rs
 10      /rsusr                            AUTOMNT     RDWR RS84      *AMD/rs
 13      /rsusr/java                      HFS         READ RS84      RSRTE.M
 14      /rsusr/java/IBM/J7.0              ZFS         READ RS84      RSRTE.J
 15      /rsusr/java/IBM/J7.0_64           ZFS         READ RS84      RSRTE.J
 16      /rsusr/java/IBM/J8.0              ZFS         READ RS84      RSRTE.J
 17      /rsusr/java/IBM/J8.0_64           ZFS         READ RS84      RSRTE.J
 11      /u                                AUTOMNT     RDWR RS84      *AMD/u
 12      /web                              AUTOMNT     RDWR RS84      *AMD/we
  2      /RS84                            ZFS         RDWR RS84      RS84.FI
  3      /RS84/dev                        ZFS         RDWR RS84      RS84.FI
  5      /RS84/etc                        ZFS         RDWR RS84      RS84.FI
  6      /RS84/tmp                        TFS         RDWR RS84      /TMPRS8
  4      /RS84/var                        ZFS         RDWR RS84      RS84.FI
  7      /RZ203A                          ZFS         READ RS84      ZFS.V2R

```

RDWR rows  
highlighted

# File Systems

Display Filter View Print Options Search Help		
Show Columns		Row 1 to 14 of 19
Command ==> _____		
Sort column with F5. Use Locate to position to column.		
/ All values      - Column width		
Column	##	Value
DEVICE	01	1
Path	01	/
Type	01	ZFS
Mode	01	RDWR
Owner	01	RS84
Name	01	RS84.FILESYS.ROOT
Status	01	ACTIVE
StatNum	01	7
AutoMove	01	YES
Client	01	NO
Latch	01	14
Mount-Time-Date	01	01/31/2017 13:54:28
MountParm	01	
QSysName	01	
7	ZFS.V2R03.VERSION.ZFS.RZ203A	
		ACTIVE



# File Systems

```
Display Filter View Print Options Search Help
                                     Show Columns Row 15 to 19 of 19
Command ==> _____
Sort column with F5. Use Locate to position to column.
/ All values      - Column width
Column           ##  Value
QJobName         01
QPID             01  0
DevNum           01  1
SysName          01  RS84
SysLevel         01  z/OS 02.03.00 HBB77B0
***** Bottom of data *****
7          ZFS.V2R03.VERSION.ZFS.RZ203A          ACTIVE
```

# Subsystem Panel

- SSI command
- Shows all subsystems defined to system
  - Sysplex wide using SYSNAME pattern
- Actions to display subsystem and opdata in log

# Subsystem Panel

```

Display Filter View Print Options Search Help
-----
SDSF SUBSYSTEM DISPLAY RS84 RS84 LINE 1-13 (13)
COMMAND INPUT ==> SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DA-DisplayAll,
ACTION=DO-DisplayOdata
NP NAME NameX Type Status Primary Dynamic SetSSI EventRtn SSCT S
  AXR C1E7D940 ACTIVE NO YES NO NO 00C36BE8 0
  DFRM C4C6D9D4 INACTIVE NO NO NO NO 00C36AC8 0
  HASP C8C1E2D7 JES2 ACTIVE NO YES NO NO 00C36C48 0
  JES2 D1C5E2F2 JES2 ACTIVE YES YES NO NO 00C368E8 0
  LOGR D3D6C7D9 ACTIVE NO YES NO NO 00C36B28 0
  MPFX D4D7C6E7 INACTIVE NO NO NO NO 00C36B88 0
  MSTR D4E2E3D9 ACTIVE NO NO NO NO 00C36828 0
  RACF D9C1C3C6 ACTIVE NO YES NO NO 00C36948 0
  RRS D9D9E240 INACTIVE NO NO NO NO 00C36A68 0
  SMS E2D4E240 ACTIVE NO YES NO NO 00C36888 0
  TNF E3D5C640 INACTIVE NO NO NO NO 00C369A8 0
  VMCF E5D4C3C6 INACTIVE NO NO NO NO 00C36A08 0
  XDC. E7C4C34B ACTIVE NO NO NO NO 00C2BF00 0

```

Some subsystems have hex characters in name so we show both

# Subsystem Panel

```

Display Filter View Print Options Search Help
-----
SDSF SUBSYSTEM DISPLAY RS84 RS84 LINE 1-13 (13)
COMMAND INPUT ===> SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DA-DisplayAll,
ACTION=DO-DisplayOpdata
NP NAME SSCTSUSE SSCTSUS2 SSVT FC04 FC08 FC09 FC10 FC14 FC50 FC54 FC58 FC
AXR 00000000 00000000 116976A8 NO NO NO YES NO NO NO NO NO
DFRM 00000000 90000000 00000000 NO NO NO NO NO NO NO NO NO
HASP 00C167CC 00C16408 10EAB8C0 YES YES NO NO NO NO YES NO NO
JES2 00C167CC 00C16408 10EABAE8 YES YES YES YES NO NO YES NO NO
LOGR 00000000 00000000 117C0A88 NO NO NO NO NO NO NO NO NO
MPFX 00000000 00000000 00000000 NO NO NO NO NO NO NO NO NO
MSTR 00000000 00000000 00C38620 YES YES YES YES YES YES YES NO YE
RACF 00C24000 00000000 00C38AF8 NO NO NO YES NO NO NO NO NO
RRS 00000000 00000000 00000000 NO NO NO NO NO NO NO NO NO
SMS 00000000 00000000 00C39000 NO YES NO NO NO NO NO NO NO
TNF 00C41188 00002900 00000000 NO NO NO NO NO NO NO NO NO
VMCF 00C38948 00002A00 00000000 NO NO NO NO NO NO NO NO NO
XDC. 00FC05E8 00000000 00C2B278 NO YES NO NO NO YES NO NO NO

```

# SMS Storage Groups Panel

- SMSG command
- Shows all SMS storage groups defined to system
  - Sysplex wide using SYSNAME pattern
- Actions to display, enable, disable, and quiesce
- L action to show all volumes in storage group
  - Accesses SMSV panel

# SMS Storage Groups Panel

```

Display Filter View Print Options Search Help
-----
SDSF STORAGE GROUP DISPLAY RS84 RS84 LINE 1-9 (9)
COMMAND INPUT ==> SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SORT=Used%/D SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DL-DisplayList,
ACTION=L-ListVol,VD-VaryDisable,VDN-VaryDisableNew,VE-VaryEnable,
ACTION=VQ-VaryQuiesce,VQN-VaryQuiesceNew,VS-VarySpace
NP NAME Type Status TotalMB Used% FreeMB LargestFre
DMPG1 POOL ENABLED 2707 21.53 2124 1
TSOG1 POOL ENABLED 2707 10.56 2421 2
SYSG2 POOL ENABLED 2707 8.45 2478 2
SYSG1 POOL ENABLED 2707 7.49 2504 2
ZFSG1 POOL ENABLED 2707 4.21 2593 2
RCKG1 POOL ENABLED 2707 0.18 2702 2
WRKG1 POOL ENABLED 2707 0.18 2702 2
DB2G1 POOL DISABLED-NEW 0 0.00 0
EMCCXSG POOL ENABLED 0 0.00 0

```

# SMS Volumes Panel

- SMSV command
- Shows all volumes defined to SMS
  - Online and offline to MVS
  - Sysplex wide using SYSNAME pattern
- Actions to display, enable, disable, and quiesce a volume

# SMS Volumes Panel

Display Filter View Print Options Search Help							
SDSF SMS VOLUME DISPLAY			RS84		RS84		LINE 1-16 (16)
COMMAND INPUT ==>			SCROLL ==> HALF				
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=							
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DC-DisplayCFVol,							
ACTION=DS-DisplaySG,DSL-DisplaySGList,VD-VaryDisable,VDN-VaryDisableNew,							
ACTION=VE-VaryEnable,VQ-VaryQuiesce,VQN-VaryQuiesceNew,VS-VarySpace							
NP	VOLSER	Status	TotalMB	Used%	FreeMB	LargestFreeMB	Device-Status
	DBXX00	ENABLED	0	0.00	0	0	OFFLINE
	DMXX00	ENABLED	0	0.00	0	0	OFFLINE
	DM8400	ENABLED	2707	21.53	2124	1344	ONLINE
	ECXX00	ENABLED	0	0.00	0	0	OFFLINE
	R1XX00	ENABLED	0	0.00	0	0	OFFLINE
	R18400	ENABLED	2707	0.18	2702	2702	ONLINE
	S1XX00	ENABLED	0	0.00	0	0	OFFLINE
	S18400	ENABLED	2707	7.49	2504	2404	ONLINE
	S2XX00	ENABLED	0	0.00	0	0	OFFLINE
	S28400	ENABLED	2707	8.45	2478	2294	ONLINE
	TSXX00	ENABLED	0	0.00	0	0	OFFLINE
	TS8400	ENABLED	2707	10.56	2421	2414	ONLINE
	WKXX00	ENABLED	0	0.00	0	0	OFFLINE
	WK8400	ENABLED	2707	0.18	2702	2702	ONLINE
	ZFXX00	ENABLED	0	0.00	0	0	OFFLINE
	ZF8400	ENABLED	2707	4.21	2593	2593	ONLINE



# SMS Volumes Panel

```

Display Filter View Print Options Search Help
-----
SDSF SMS VOLUME DISPLAY RS84 RS84 LINE 1-16 (16)
COMMAND INPUT ==> SCROLL ==> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DC-DisplayCFVol,
ACTION=DS-DisplaySG,DSL-DisplaySGList,VD-VaryDisable,VDN-VaryDisableNew,
ACTION=VE-VaryEnable,VQ-VaryQuiesce,VQN-VaryQuiesceNew,VS-VarySpace
NP VOLSER FreeMB LargestFreeMB Device-Status Unit StorGrp LastUser SysNam
DBXX00 0 0 OFFLINE 0000 DB2G1 PDDAVE RS84
DMXX00 0 0 OFFLINE 0000 DMPG1 PDILYA RS84
DM8400 2124 1344 ONLINE 690E DMPG1 TSADA RS84
ECXX00 0 0 OFFLINE 0000 EMCCXSG TSADA RS84
R1XX00 0 0 OFFLINE 0000 RCKG1 PDILYA RS84
R18400 2702 2702 ONLINE 6C14 RCKG1 TSADA RS84
S1XX00 0 0 OFFLINE 0000 SYSG1 PDILYA RS84
S18400 2504 2404 ONLINE 6C10 SYSG1 TSADA RS84
S2XX00 0 0 OFFLINE 0000 SYSG2 PDILYA RS84
S28400 2478 2294 ONLINE 6C11 SYSG2 TSADA RS84
TSXX00 0 0 OFFLINE 0000 TSOG1 PDDAVE RS84
TS8400 2421 2414 ONLINE 6C15 TSOG1 TSADA RS84
WKXX00 0 0 OFFLINE 0000 WRKG1 PDILYA RS84
WK8400 2702 2702 ONLINE 6C16 WRKG1 TSADA RS84
ZFXX00 0 0 OFFLINE 0000 ZFSG1 TSADA RS84
ZF8400 2593 2593 ONLINE 690F ZFSG1 TSADA RS84

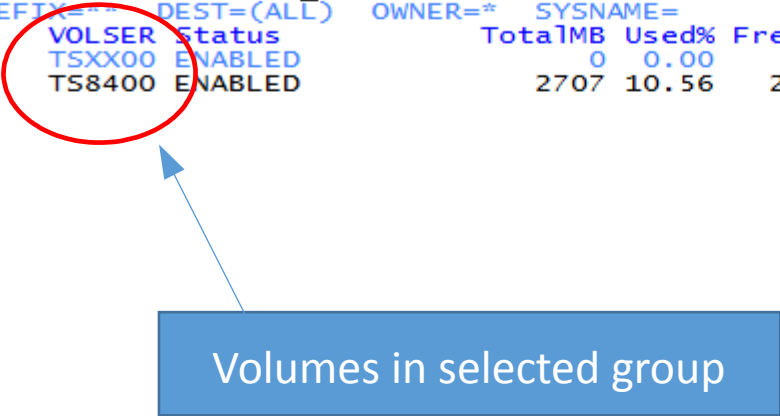
```

# SMS Groups to Volumes

Display Filter View Print Options Search Help							
SDSF STORAGE GROUP DISPLAY RS84 RS84				LINE 1-9 (9)			
COMMAND INPUT ==>				SCROLL ==> HALF			
PREFIX=** DEST=(ALL) OWNER=* SORT=Used%/D SYSNAME=							
NP	NAME	Type	Status	TotalMB	Used%	FreeMB	LargestFre
	DMPG1	POOL	ENABLED	2707	21.53	2124	1
1	TSOG1	POOL	ENABLED	2707	10.56	2421	2
-	SYSG2	POOL	ENABLED	2707	10.19	2431	2
	SYSG1	POOL	ENABLED	2707	7.49	2504	2
	ZFSG1	POOL	ENABLED	2707	4.21	2593	2
	RCKG1	POOL	ENABLED	2707	0.18	2702	2
	WRKG1	POOL	ENABLED	2707	0.18	2702	2
	DB2G1	POOL	DISABLED-NEW	0	0.00	0	
	EMCCXSG	POOL	ENABLED	0	0.00	0	

# SMS Groups to Volumes

```
Display Filter View Print Options Search Help
-----
SDSF SMS VOLUME DISPLAY R584 R584 LINE 1-2 (2)
COMMAND INPUT ==> SCROLL ==> HALF
PREFIX== DEST=(ALL) OWNER=* SYSNAME=
NP VOLSER Status TotalMB Used% FreeMB LargestFreeMB Device-Status
  TSXX00 ENABLED 0 0.00 0 0 OFFLINE
  TS8400 ENABLED 2707 10.56 2421 2414 ONLINE
```



Volumes in selected group

# XCF Connections

- XCFC command
- Shows information about XCF structure connections in the sysplex
- Actions to display structures

# XCF Connections

```

  Display  Filter  View  Print  Options  Search  Help
-----
SDSF XCF CONNECTION DISPLAY  RS84                                LINE 1-2 (2)
COMMAND INPUT ===>                                           SCROLL ===> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DA-DisplayAll,
ACTION=DS-DisplayStructure
NP  CONNAME          StrName          StrType  Status          JobName  ASID
    SIGPATH_01000082 IXCLIST1         LIST     ALLOCATED       XCFAS    6
    SIGPATH_01000082 IXCLIST2         LIST     ALLOCATED       XCFAS    6

```

# XCF Connections

Display Filter View Print Options Search Help

Show Columns

Row 1 to 14 of 22

Command ==>

Sort column with F5. Use Locate to position to column.

All values

Column width

Column	##	Value
CONNAME	01	SIGPATH_01000082
StrName	01	IXCLIST1
StrType	01	LIST
Status	01	ALLOCATED
JobName	01	XCFAS
ASID	01	6
ASIDX	01	0006
ID	01	01
Version	01	00010025
CFLevel	01	1
ConData	01	7EE3776800000000
DiscData	01	0000000000000000
Policy	01	CFRMPOL
CFName	01	CF84

# XCF Connections

```
Display  Filter  View  Print  Options  Search  Help
                                         Show Columns  Row 15 to 22 of 22
Command ==> _____
Sort column with F5. Use Locate to position to column.
- All values      - Column width
Column           ##  Value
NumCF             01  1
ConTokenX         01  C9E7C3D3D6F0F0F37FF5530000010025
ConLevel          01  0000000000000000
SToken            01  00000018000000001
ConFlags          01  82000000
SysNum            01  1
SysSeq            01  130
SysName           01  RS84
***** Bottom of data *****
```

# XCF Structures

- XCFS command
- Shows information about XCF structures
- Actions to display structures



# XCF Structures

```

Display Filter View Print Options Search Help
-----
SDSF XCF STRUCTURE DISPLAY RS84                               LINE 1-19 (19)
COMMAND INPUT ===>                                           SCROLL ===> HALF
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,-Show,//-Block,%-RunExec,=-Repeat,D-Display,DA-DisplayAll
NP  STRNAME      Type      Status      Disp      Size      Size%      Conn
    HZS_HEALTHCHKLOG      NOTALLOCATED      DELETE      0      0.00      0
    IGWLOCK00              NOTALLOCATED      DELETE      0      0.00      0
    IRRXCF00_B001          NOTALLOCATED      DELETE      0      0.00      0
    IRRXCF00_P001          NOTALLOCATED      DELETE      0      0.00      0
    ISGLOCK                NOTALLOCATED      DELETE      0      0.00      0
    IXC_DEFAULT            NOTALLOCATED      DELETE      0      0.00      0
    IXC_DEF8K              NOTALLOCATED      DELETE      0      0.00      0
    LOGREC                 NOTALLOCATED      DELETE      0      0.00      0
    OPERLOG                NOTALLOCATED      DELETE      0      0.00      0
    RRS_ARCHIVE            NOTALLOCATED      DELETE      0      0.00      0
    RRS_DELAYED_UR         NOTALLOCATED      DELETE      0      0.00      0
    RRS_MAIN_UR            NOTALLOCATED      DELETE      0      0.00      0
    RRS_RESTART            NOTALLOCATED      DELETE      0      0.00      0
    RRS_RM_DATA            NOTALLOCATED      DELETE      0      0.00      0
    SCLM_CACHE             NOTALLOCATED      DELETE      0      0.00      0
    SYSARC_CRQ01_RCL       NOTALLOCATED      DELETE      0      0.00      0
    SYSIGGCAS_ECS          NOTALLOCATED      DELETE      0      0.00      0
    IXCLIST1               LIST      ALLOCATED      DELETE      10240  100.00      1
    IXCLIST2               LIST      ALLOCATED      DELETE      10240  100.00      1

```

# XCF Structures

Display Filter View Print Options Search Help

Command ==> Show Columns Row 1 to 14 of 31

Sort column with F5. Use Locate to position to column.

— All values — Column width

Column	##	Value
STRNAME	01	IXCLIST1
Type	01	LIST
Status	01	ALLOCATED
Disp	01	DELETE
Size	01	10240
Size%	01	100.00
Conn	01	1
Lists	01	38
Entry%	01	0.17
Elem%	01	2.91
EntryInUse	01	1
EntryTotal	01	565
EntryChange	01	0
EntryChange%	01	0.00

IXCLIST2 LIST ALLOCATED DELETE 10240 100.00 1

# XCF Structures

Display Filter View Print Options Search Help

Command ==> Show Columns Row 15 to 28 of 31

Sort column with F5. Use Locate to position to column.

— All values — Column width

Column	##	Value
ElemInUse	01	16
ElemTotal	01	549
ElemChange	01	0
ElemChange%	01	0.00
Locks	01	0
Alloc-Date-Time	01	01/31/2017 13:53:49
Duplex	01	DISABLED
AutoAlt	01	NO
Realloc	01	YES
Full%	01	0.80
Rebuild%	01	0.00
PolSize	01	10240
InitSize	01	0
MinSize	01	0

IXCLIST2 LIST ALLOCATED DELETE 10240 100.00 1

# Virtual Storage Map Panel

- VMAP command
- Shows map of virtual storage for system by address
  - Sysplex wide using SYSNAME pattern
- Displays size and allocation of each area

# Virtual Storage Map Panel

Display Filter View Print Options Search Help							
SDSF VMAP DISPLAY RS84 RS84				LINE 1-24 (24)			
COMMAND INPUT ==>				SCROLL ==> HALF			
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=							
ACTION=+-Extend,/-Show, //-Block,%-RunExec,=-Repeat							
NP	NAME	Start-Address	End-Address	Size	Alloc	Alloc%	H
	HV-SHARED	00000200_00000000	00020000_00000000	510T	0	0	
	HV-COMMON	000001EF_80000000	000001FF_FFFFFFFF	66G	6993M	10	
	HV-PRIVATE	00000048_00000000	000001EF_7FFFFFFF	1694G	0	0	
	LOCALSYSAREA	00000008_00000000	00000047_FFFFFFFF	256G	0	0	
	RESERVED	00000000_80000000	00000007_FFFFFFFF	30G	0	0	
	EXTENDED-PRIVATE	00000000_11B00000	00000000_7FFFFFFF	1765M	0	0	
	EXTENDED-CSA	00000000_06FFA000	00000000_11AFFFFF	171M	35M	20	3
	EXTENDED-MLPA	00000000_00000000	00000000_00000000	0	0	0	
	EXTENDED-FLPA	00000000_06FF7000	00000000_06FF9FFF	12288	0	0	
	EXTENDED-PLPA	00000000_0335B000	00000000_06FF6FFF	62064K	0	0	
	EXTENDED-SQA	00000000_01CDF000	00000000_0335AFFF	23024K	20M	90	2
	EXTENDED-R/W-NUC	00000000_01C88000	00000000_01CDEFFF	356352	0	0	
	EXTENDED-R/O-NUC	00000000_01000000	00000000_01C8709F	12828K	0	0	
	R/O-NUC	00000000_00FDF000	00000000_00FFFFFF	135168	0	0	
	R/W-NUC	00000000_00FD3000	00000000_00FDE52F	46384	0	0	
	SQA	00000000_00E40000	00000000_00FD2FFF	1612K	320K	19	9
	PLPA	00000000_00C49000	00000000_00E3FFFF	2012K	0	0	
	FLPA	00000000_00000000	00000000_00000000	0	0	0	
	MLPA	00000000_00000000	00000000_00000000	0	0	0	
	CSA	00000000_00900000	00000000_00C48FFF	3364K	487K	14	5
	PRIVATE	00000000_00006000	00000000_008FFFFF	9192K	0	0	
	V=R	00000000_00000000	00000000_00000000	0	0	0	
	SYSTEM	00000000_00002000	00000000_00005FFF	16384	0	0	
	PSA	00000000_00000000	00000000_00001FFF	8192	0	0	

# Virtual Storage Map Panel

Display	Filter	View	Print	Options	Search	Help					
SDSF VMAP DISPLAY	RS84	RS84					LINE 1-24 (24)				
COMMAND INPUT ==>							SCROLL ==> HALF				
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=											
ACTION=+-Extend,/-Show,/--Block,%-RunExec,=-Repeat											
NP	NAME	Size	Alloc	Alloc%	HWM	HWM%	Seq	SysName	SysLevel		
	HV-SHARED	510T	0	0	0	0	1	RS84	z/OS 02.03.0		
	HV-COMMON	66G	6993M	10	6994M	10	2	RS84	z/OS 02.03.0		
	HV-PRIVATE	1694G	0	0	0	0	3	RS84	z/OS 02.03.0		
	LOCALSYSAREA	256G	0	0	0	0	4	RS84	z/OS 02.03.0		
	RESERVED	30G	0	0	0	0	5	RS84	z/OS 02.03.0		
	EXTENDED-PRIVATE	1765M	0	0	0	0	6	RS84	z/OS 02.03.0		
	EXTENDED-CSA	171M	35M	20	36434K	20	7	RS84	z/OS 02.03.0		
	EXTENDED-MLPA	0	0	0	0	0	8	RS84	z/OS 02.03.0		
	EXTENDED-FLPA	12288	0	0	0	0	9	RS84	z/OS 02.03.0		
	EXTENDED-PLPA	62064K	0	0	0	0	10	RS84	z/OS 02.03.0		
	EXTENDED-SQA	23024K	20M	90	21209K	92	11	RS84	z/OS 02.03.0		
	EXTENDED-R/W-NUC	356352	0	0	0	0	12	RS84	z/OS 02.03.0		
	EXTENDED-R/O-NUC	12828K	0	0	0	0	13	RS84	z/OS 02.03.0		
	R/O-NUC	135168	0	0	0	0	14	RS84	z/OS 02.03.0		
	R/W-NUC	46384	0	0	0	0	15	RS84	z/OS 02.03.0		
	SQA	1612K	320K	19	904816	54	16	RS84	z/OS 02.03.0		
	PLPA	2012K	0	0	0	0	17	RS84	z/OS 02.03.0		
	FLPA	0	0	0	0	0	18	RS84	z/OS 02.03.0		
	MLPA	0	0	0	0	0	19	RS84	z/OS 02.03.0		
	CSA	3364K	487K	14	505880	14	20	RS84	z/OS 02.03.0		
	PRIVATE	9192K	0	0	0	0	21	RS84	z/OS 02.03.0		
	V=R	0	0	0	0	0	22	RS84	z/OS 02.03.0		
	SYSTEM	16384	0	0	0	0	23	RS84	z/OS 02.03.0		
	PSA	8192	0	0	0	0	24	RS84	z/OS 02.03.0		

# Common Storage Remaining Panel

- CSR command
- Shows common storage remaining after address space ends
  - Sysplex wide using SYSNAME pattern
- Requires CSA and SQA tracking enabled in DIAGxx

# CSR Panel

```

Display Filter View Print Options Search Help
-----
SDSF CSR DISPLAY RS84      RS84
COMMAND INPUT ===>
PREFIX=** DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat
NP  JOBNAME  JobID  ASID  ASIDX  CSA  CSA%  SQA  SQA%  ECSA  ECSA%  ES
CATALOG                20 0014      0 0.0000 128 0.0077      0 0.0000  2
EZA ZSSI STC02786      39 0027    288 0.0083      0 0.0000      0 0.0000
HWIBCPII                29 001D      0 0.0000      0 0.0000 3672 0.0020
IFGEDI                  33 0021      0 0.0000      0 0.0000 4864 0.0027
IPLTIME  JOB02841      43 002B      0 0.0000      0 0.0000      0 0.0000 10
PDSCOT   TSU02860     101 0065    136 0.0039      0 0.0000 6456 0.0036
PDSCOT   TSU02863      96 0060    136 0.0039      0 0.0000 7192 0.0040
PDSCOT   TSU02864      96 0060    136 0.0039      0 0.0000 7192 0.0040

```



# Generic Tracker Panel

- GT command
- Shows generic tracker events
- Actions to display events
- SDSF generates some events
  - NOPARM fallback: SDSF server not available or ISFPRMxx not active
  - Main menu as table disabled

# Generic Tracker Panel

```

Display Filter View Print Options Search Help
-----
SDSF GENERIC TRACKER  RS84      RS84      LINE 1-9 (9)
COMMAND INPUT ==>
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,D-Display,DA-DisplayAll,
ACTION=DD-DisplayDebug,DE-DisplayExclude,DH-DisplayHomeJob,DS-DisplayStatus
NP  OWNER      Source      Program      ProgramOffset      EventDesc
IBM CNZ      CNZTRKR      IKJLDI99      000000000000001AE      SMS-I:3 DEVTYPE
IBM CNZ      CNZTRKR      IKJLDI99      000000000000001AE      SMS-I:3 DEVTYPE
IBM JES2     HASCINJR      *UNKNOWN      0000000000000000      00000000 0 00000000 0 TSOINR
IBM JES2     HASCINJR      *UNKNOWN      0000000000000000      00000000 0 00000000 0 STCINR
IBM JES2     HASCINJR      *UNKNOWN      0000000000000000      00000000 0 00000000 0 STCINR
IBM JES2     HASCINJR      *UNKNOWN      0000000000000000      00000000 0 00000000 0 TSOINR
IBM JES2     HASCINJR      *UNKNOWN      0000000000000000      00000000 0 00000000 0 STCINR
IBM JES2     HASCINJR      *UNKNOWN      0000000000000000      00000000 0 00000000 0 STCINR
IBMSDSF     ISFINITC      ISFVTBL      0000000000020E9DC      SDSF NOPARM FALLBACK: ISFPRMXX

```



SDSF NOPARM event

# New Secondary Panels

- Secondary panels access using an action character
- Job Module (JC action on DA or AS)
- Job Tasks (JT action on DA or AS)

# Job Module (CDE) Panel

- JC action from DA or AS
- Shows all CDEs for the selected address space

```

  Display  Filter  View  Print  Options  Search  Help
-----
SDSF AS DISPLAY  RS84      RS84      CHARS 'SDSF' FOUND
COMMAND INPUT ===>          SCROLL ===> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
NP  JOBNAME  ASIDX  Real  Fixed  CSA  CSA%  ECSA  ECSA%  SQA  SQA%
jc_ SDSF     0060   1553   124    0    0.00  1055768  0.58    0    0.00
    MXIDCM   0061    713    91    0    0.00    736    0.00   64    0.00
    SSHD3    0062   3612    95    0    0.00     0    0.00    0    0.00

```

# Job Module Panel

Display Filter View Print Options Search Help											
SDSF JOB MODULE R584			ASID 0060 SDSF			STC02865			LINE 1-26 (68)		
COMMAND INPUT ==>			SCROLL ==> HALF								
PREFIX=** DEST=(ALL)			OWNER=*			SYSNAME=					
NP	MODULE	Major	EPA	ModLen	SP	TCB	Program	JPAQ	LPDE	Use	Sy
	ERBSMFI		11B78BE8	00013418	252	008F8588	ISFHCTL	NO	NO	1	
	ERBSMFI		11B78BE8	00013418	252	008FF128	IEAVTSDT	YES	NO	1	
	EZBNMIFR		11B000B8	000002C8	252	008F8588	ISFHCTL	NO	NO	1	
	EZBNMIFR		11B000B8	000002C8	252	008FF128	IEAVTSDT	YES	NO	1	
	HSF@FUNC		11B47368	0000BC98	252	008F8588	ISFHCTL	NO	NO	1	
	HSF@FUNC		11B47368	0000BC98	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFAPI		11B53168	00007E98	252	008F8588	ISFHCTL	NO	NO	1	
	HSFAPI		11B53168	00007E98	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFAPI64		11B5BF58	000080A8	252	008F8588	ISFHCTL	NO	NO	1	
	HSFAPI64		11B5BF58	000080A8	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFEOTXR		11B5B9D0	00000588	252	008F8588	ISFHCTL	NO	NO	1	
	HSFEOTXR		11B5B9D0	00000588	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFESTAE		11B64DF0	00002210	252	008F8588	ISFHCTL	NO	NO	1	
	HSFESTAE		11B64DF0	00002210	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFKYWDA		11B5B248	00000788	252	008F8588	ISFHCTL	NO	NO	1	
	HSFKYWDA		11B5B248	00000788	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFKYWDF		11B67440	00001BC0	252	008F8588	ISFHCTL	NO	NO	1	
	HSFKYWDF		11B67440	00001BC0	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFKYWDR		11B646F0	00000700	252	008F8588	ISFHCTL	NO	NO	1	
	HSFKYWDR		11B646F0	00000700	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFKYWDU		11B69808	000037F8	252	008F8588	ISFHCTL	NO	NO	1	
	HSFKYWDU		11B69808	000037F8	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFKYWDX		11B6D588	00000A78	252	008F8588	ISFHCTL	NO	NO	1	
	HSFKYWDX		11B6D588	00000A78	252	008FF128	IEAVTSDT	YES	NO	1	
	HSFMSG		11B6E060	00006FA0	252	008F8588	ISFHCTL	NO	NO	1	
	HSFMSG		11B6E060	00006FA0	252	008FF128	IEAVTSDT	YES	NO	1	

# Job Tasks Panel

- JT action on DA or AS
- Shows all tasks for selected address space

```

Display Filter View Print Options Search Help
-----
SDSF AS DISPLAY RS84      RS84                      LINE 68-70 (70)
COMMAND INPUT ===>                      SCROLL ===> HALF
PREFIX=**  DEST=(ALL)  OWNER=*  SYSNAME=
ACTION=+-Extend,/-Show,//-Block,%-RunExec,=-Repeat,JC-JobModule,JD-JobDevices,
ACTION=JM-JobMemory,JT-JobTasks
NP  JOBNAME  ASIDX  Real  Fixed  CSA      CSA%  ECSA  ECSA%  SQA  SQA%
jt- SDSF      0060   1553   124      0    0.00  1055768  0.58      0    0.00
    MXIDCM    0061    713    91      0    0.00    736    0.00     64    0.00
    SSHD3     0062   3612    95      0    0.00     0    0.00     0    0.00

```

# Job Tasks Panel

Display	Filter	View	Print	Options	Search	Help			
SDSF JOB TASKS	RS84	ASID	0060	SDSF	STC02865	LINE 1-15 (15)	SCROLL ==> HALF		
COMMAND INPUT ==>									
PREFIX==**		DEST=(ALL)	OWNER=*	SYSNAME=					
NP	TCB	RB	Type	Program	Storage	FreeStor	CPU-Time		
	008FD520		TCB		835584	117168	0.00		
	008FD520	008FFF98	PRB	IEAVAR00			0.00		
	008FEE88		TCB		647168	61072	0.00		
	008FEE88	008FF0A0	PRB	IEFSD060			0.00		
	008FEE88	008FED78	PRB	IEESB605			0.00		
	008F8588		TCB		4472832	150552	2.10		
	008F8588	008F8500	PRB	ISFHCTL			0.00		
	008D8738		TCB		45056	7008	0.72		
	008D8738	008D8658	PRB	HSFSYSMN			0.00		
	008D89B0		TCB		114688	28272	0.03		
	008D89B0	008D88D0	PRB	HSFSRVPL			0.00		
	008FC830		TCB		102400	29560	2.97		
	008FC830	008D8EA0	PRB	HSFSRVML			0.00		
	008FF128		TCB		323584	8064	0.00		
	008FF128	008FEE00	PRB	IEAVTSDT			0.00		

# Miscellaneous Updates

- New columns
  - GDGBias on JC (overtypable)
  - CopyGroups on JDS
  - Email on I and ST (JES2 only)
  - BeforeJob, BeforeJID, AfterJob, AfterJID, SchDelay on I and ST
  - UseCount on PROC
  - IntNum on INIT
  - NSecure on NS
  - VfyPath on NO (overtypable)
  - BERTNum, JOENum, JOEBERTS, Dubious on I and ST
  - SMFB limit now overtypable on RM
  - ZJC resource added to RM
  - Priv, PrivUsed, Priv%, EPriv, EPrivUsed, EPriv% on AS



# Miscellaneous Updates

- New Actions
  - dl action on JC (JES2 only)
  - jc action to DA and AS
  - jt action on DA and AS
  - a, h, p, pf on DYNX

# Interactions & Dependencies

- Software Dependencies

- None

- Hardware Dependencies

- None

- Exploiters

- None

# Migration & Coexistence Considerations

- Toleration support

- APAR PI74465 to share SDSF V2R3 ISFPRMxx with SDSF V2R1 and V2R2

- Migration support

- To restore main panel to prior format, use custom property Panel.Main.DisableTable or allocate file ISFMIGMN to dummy
  - If you are using old style ISFPARMS, you must reassemble using V2R3 macros. Note that ISFPARMS cannot shared with prior releases of SDSF.

- Coexistence support

- None (SDSF V2R3 is compatible with SDSF V2R1 and SDSF V2R2)

# Installation

- New function requires SDSF and SDSFAUX address spaces
  - If you are not starting SDSF address space, do it now!
  - SDSFAUX will be automatically started by SDSF when it initializes
- Sample JCL is in ISF.SISFJCL
  - Members SDSF and SDSFAUX
  - Copy the JCL to your proclib if not already there
- Sample parmlib members in ISF.SISFJCL
  - ISFPRM00 equivalent to ISFPARMS
  - Copy to your parmlib

# Configuration

- SDSF class must be raclisted
  - Required as of the SDSF V2R1 and V2R2 SPEs
- User must be authorized to connect to SDSF
  - Read access to ISF.CONNECT.*system* resource in SDSF class

# Summary

- Reviewed new function in SDSF SPEs
- Summarized new function in SDSF V2R3
  - Easier to use !!
  - New Panels !!
- Please start the SDSF address space

# Appendix

# Appendix

- SDSF Operation and Customization, SA23-2274
- SDSF REXXHELP command
  - Contains SDSF/REXX usage, syntax, and examples
- SDSF RGEN command
  - Generates starter REXX execs and examples
- SDSF Javadoc
  - Contains SDSF/Java documentation
  - Download from `/usr/lpp/sdsf/java/classes/isfjcallDoc.jar`
- SDSF SEARCH command
  - Searches SDSF help system for word or phrase



# Appendix

- See “What’s New” in SDSF help panels for complete list of changes

```

Display Filter View Print Options Search Help
COMMAND INPUT ==> _
HELP: SDSF -- Table of Contents

Select a topic by number, or press Enter to view topics in sequence.

 1 - What's new
 2 - Job and workload panels
 3 - Device and resource panels
 4 - System information panels
 5 - Search and scroll commands
 6 - Filter commands
 7 - View commands
 8 - Printing data
 9 - Options commands
10 - Other commands
11 - Server commands
12 - SDSF command
13 - Help commands
14 - Action bar
15 - PF keys and keylists
16 - Action characters
17 - Overtypable fields
18 - JES and MVS commands
19 - Point-and-shoot
20 - Online library
99 - SDSF messages
REXXHelp - SDSF REXX (ISPF only)

SEARCH - Search the help (ISPF only)

F1 = Help      F10 = Previous      Enter = Forward
F3 = Exit      F7 = Up              TOC = Menu

AS      Address space memory  Jobs
INIT    Initiators           JES
PR      Printers             JES
PUN     Punches              JES
RDR     Readers              JES
LINE    Lines                Network
NODE    Nodes                Network
  
```