

System Display and Search Facility (SDSF)

Monitor, manager and control

SDSF gives you an easy and efficient way to monitor, manage and control the key aspects of your z/OS JES2 system. You can:

- Control job processing (hold, release, cancel, and purge jobs)
- Control output, and browse jobs without printing
- Control devices such as printers, lines, and initiators across the MAS
- Browse the syslog
- Manage system resources, such as members of the MAS, job classes, and WLM enclaves
- Monitor and control the IBM Health Checker for z/OS checks

Display	Filter	View	Print	Options	Help

HQX7708----- SDSF PRIMARY OPTION MENU -----					
COMMAND INPUT ==>_ SCROLL ==> PAGE					
DA	Active users		INIT	Initiators	
I	Input queue		PR	Printers	
O	Output queue		PUN	Punches	
H	Held output queue		RDR	Readers	
ST	Status of jobs		LINE	Lines	
			NODE	Nodes	
LOG	System log		SO	Spool offload	
SR	System requests		SP	Spool volumes	
MAS	Members in the MAS				
JC	Job classes		RM	Resource monitor	
SE	Scheduling environments		CK	Health Checker	
RES	WLM Resources				
ENC	Enclaves		ULOG	User session log	
PS	Processes				

SDSF menu for a user with full authority

With SDSF panels, there is no need to learn or remember complex command syntax. SDSF's action characters, overtypable fields, action bar, pull-downs, and pop-up windows allow you to select available functions.

Display	Filter	View	Print	Options	Help

SDSF DA AQTs SYS1 PAG 10 SIO 113 CPU 114/007					
COMMAND INPUT ==>_ SCROLL ==> PAGE					
NP	JOBNAME	SysName	Real	Paging	SIO CPU% SrvClass
	MASTER	AQFT	10T	0.00	7.06 0.15 SYSTEM
	MASTER	AQTS	3594	0.00	0.12 0.04 SYSTEM
	ABOWEN	AQTS	742	0.00	0.00 0.00 TSOPRIME
	ADAM	AQTS	1310	0.00	0.00 0.00 TSOPRIME
	ADANPL	AQTS	1128	0.00	0.00 0.00 TSOPRIME
	ADINELL	AQTS	564	0.00	0.00 0.00 TSOPRIME
	ADOOLEY	AQFT	1472	0.00	0.00 0.00 TSOPRIME
	ADSM	AQTS	9544	0.00	0.00 0.59 SYSSTC
	AFOSTER	AQFT	1261	0.00	0.00 0.00 TSOPRIME
	AFUREY	AQTS	5496	0.00	0.00 0.00 TSOPRIME

- Select a function; no learning curve

- Authorized users can issue system commands from the command line

- System data, current and customizable

Type short commands here to take action; no need to remember command syntax.

Modify values by typing over them

Control jobs

SDSF provides an easy way to control JES2 jobs, which can help your users work more efficiently. It gives immediate, up-to-date, MAS-wide information about jobs waiting to be processed or in execution. You can display all active jobs, all jobs on a specific queue, or display detail for a job no matter where it is in the sysplex. And you can display output as it is created.

```

Display  Filter  View  Print  Options  Help
-----
SDSF STATUS DISPLAY ALL CLASSES      LINE 1-20 (24651)
COMMAND INPUT ==>_                    SCROLL ==> PAGE
NP  JOBNAME  JobID   Owner   Prty Queue  C
   PEKOW2   JOB19199 SCHED   15  INPUT  J
   ACTAPSO2 JOB23991 SCHED   15  INPUT  J
   SCHEDULC JOB23474 ???????? 10  XMITTER J
   SCHEDULC JOB31939 ???????? 10  XMITTER J
   SCHEDULC JOB03103 ???????? 10  XMITTER J
   IBMUSERU JOB09173 RACF2ND  7  EXECUTION A
   AGRafa   JOB13490 AGRaf   7  EXECUTION A
   XWALLEt3 JOB04538 XWALLEt  7  EXECUTION B

```

Status Panel - jobs on any queue

Manage work productively

With SDSF commands and action characters, you can:

- Cancel, hold or release jobs
- Find out if jobs are waiting to be processed
- Filter the jobs to show just the jobs that interest you
- View output before it is printed
- Change a job's priority, class, or destination
- Edit and resubmit the JCL without leaving SDSF

```

Display  Filter  View  Print  Options  Help
-----
SDSF INPUT QUEUE DISPLAY ALL CLASSES  LINE 22-42 (69)
COMMAND INPUT ==>_                    SCROLL ==> PAGE
NP  JOBNAME  JobID   Owner   Prty C  Pos PrtDest
   #CLRLCG  JOB26627 CLRUSER  8  D   18 LOCAL
   #CLRLCG  JOB26658 CLRUSER  8  D   19 LOCAL
   #CLRLCG  JOB26693 CLRUSER  8  D   20 LOCAL
   JYINBKUP JOB27326 ++++++++ 7  D   21 LOCAL
   JYINFPS  JOB32332 ++++++++ 7  D   22 LOCAL
   JYINFPS  JOB32333 ++++++++ 7  D   23 LOCAL
   JYINS    JOB32337 ++++++++ 7  D   24 LOCAL
   C WLMBKP#  JOB32343 THERESA  7  D   25 LOCAL
   WLMBKP#  JOB30138 THERESA  7  G    1 LOCAL

```

Canceling a job on the Input Queue

Control Output

SDSF displays detailed information about output that is ready to be printed, including:

- The high return code for a job
- The total number of lines to be printed
- Classes the output is assigned to
- Forms needed for printing
- Date the output was created.

```

Display  Filter  View  Print  Options  Help
-----
SDSF OUTPUT ALL CLASSES  ALL FORMS  LINES 1,442
COMMAND INPUT ==>_      SCROLL ==> PAGE
NP  JOBNAME  Max-RC  Owner   C Forms  JobID  Dest
   NUCLEUS1  CC 0008 COREY   A STD   JOB07873 LOCAL
   G0JEFFY   CC 0000 G0JEFF  A STD   JOB10001 LOCAL
   HARTMANC  CC 0004 HARTMAN  A STD   JOB10467 LOCAL
   KOCHR     CC 0001 KOCHR   A STD   JOB11540 LOCAL
   JPAQQQ    JCL ERROR JPAO    A STD   JOB12002 LOCAL
   RONDA2A  CC 0000 RONDA   A STD   JOB14138 LOCAL
   WLJLMK38 ABEND S806 LADYDI  A STD   JOB16674 LOCAL
   NUCLEUS1  CC 0000 COREY   A STD   JOB24196 LOCAL
   IWMINSTL JCL ERROR MONHEI2  A STD   JOB25378 LOCAL
   DAVEHFTP  CC 0000 HILLIAR A STD   JOB28811 LOCAL

```

Output Panel

SDSF allows you to control how and where your output is printed. You can:

- Hold or purge the output
- Change the output's class, destination or forms
- Set output descriptors to be printed on separator pages.

```

Display Filter View Print Options Help
-----
SDSF HELD OUTPUT DISPLAY ALL CLASSES LINES 20,599
COMMAND INPUT ==>
NP  JOBNAME  JobID   Owner   Prty C ODisp Dest
//  D16DRS1A JOB16330 DLR     7 H HOLD P2D436
   HASCUBES JOB15536 DLR     7 C HOLD LOCAL
   DLRTST   JOB16339 DLR     7 H HOLD LOCAL
   DLRRPTA  JOB17832 DLR     7 H HOLD LOCAL
   DLRRPTB  JOB17848 DLR     7 H HOLD LOCAL
//  DLREXT   JOB17888 DLR     7 H HOLD LOCAL

```

Changing the destination on multiple rows

When you work with the individual output data sets for a job, you can:

- Purge or release a data set
- Browse or print a data set
- Change the class, destination or output descriptors of a data set

```

Display Filter View Print Options Help
-----
SDSF JOB DATA SET DISPLAY - JOB BERKEA5 (JOB00042)
COMMAND INPUT ==>                SCROLL ==> PAGE
NP  DDNAME  StepName ProcStep DSID Owner  C Dest
   JESJCLIN          1 BEVK  R LOCAL
   JESMSG LG JES2    2 BEVK  R LOCAL
   JESJCL  JES2    3 BEVK  R LOCAL
   JESYSMSG JES2    4 BEVK  R LOCAL
   $INTTEXT JES2    5 BEVK  A LOCAL
   ISFIN    FINDDA  101 BEVK R LOCAL
xdc ISFOUT   FINDDA  104 BEVK R LOCAL

```

Printing an individual output dataset on the Job Data Set Panel

Browse output

You can display job output before deciding to print it. Print or search output. Or exploit the power of ISPF and use ISPF's edit or browse function to view output.

SDSF shows the job's SYSOUT data sets, the JES2 job log, the JCL for the job, and any job-related messages. You can optionally include SYSIN, as well.

```

SDSF OUTPUT DISPLAY BKELLERZ JOB26263 DSID 2
COMMAND INPUT ==>_
      J E S 2  J O B  L O G  --  S Y S T E M  A Q F T
-----
09.25.05 JOB26263  IRR010I  USERID BKELLER  IS ASSIGNED
09.25.06 JOB26263  ICH70001I BKELLER  LAST ACCESS AT 09:
09.25.06 JOB26263  $HASP373 BKELLERZ  STARTED - INIT 12 -
09.25.07 JOB26263  IEF403I  BKELLERZ  - STARTED - TIME=09.
-----
1 //BKELLERZ JOB '141691,B001D49A','WR KELLER'
// MSGCLASS=H,NOTIFY=BKELLER,CLASS=T
2 //OUT OUTPUT FORMDEF=010111,PAGEDEF=V06481
//*
//* THIS JOB COMPARES 2 DATA SETS.
3 //COMPARE PROC NAME=,
// FORMAT=FULL,
-----
16 IEF0001I PROCEDURE COMPARE WAS EXPANDED USING
ICH70001I BKELLER LAST ACCESS AT 09:25:06 ON MONDAY,
IEF236I ALLOC. FOR BKELLERZ COMPARE ZACTION

```

Excerpts from an Output Dataset Panel

You can display just the JCL, modify it, and resubmit it.

```

Command ==> sub                      Scroll ==> CSR
//BKELLERZ JOB '141691,B001D49A','WR KELLER'
// MSGCLASS=H,NOTIFY=BKELLER,CLASS=T
//OUT OUTPUT FORMDEF=010111,PAGEDEF=V06481
//*
//* THIS JOB COMPARES 2 DATA SETS.
//COMPARE PROC NAME=,
// FORMAT=FULL,

```

Control devices

With SDSF you have a single interface to the devices on your system. With SDSF and WebSphere MQ, you can work with devices anywhere in the MAS.

Control local and remote printers, punches and readers

SDSF displays the status of all printers, punches and readers on each system, and information about a job currently being processed on a device. By typing over current values, you can change the characteristics of a device. You can start, stop, halt, restart, interrupt, forward and backward space printers or punches.

```

Display Filter View Print Options Help
-----
SDSF PRINTER DISPLAY                               LINE 33-54 (102)
COMMAND INPUT ==>> _                               SCROLL ==>> PAGE
NP PRINTER Status SForms SClass Jobname JobID
PRT33 ACTIVE STD UIC12 TDOOLY JOB02733
PRT34 ACTIVE NAR UIC12 KHODGE JOB02539
PRT35 INACTIVE NAR UIC12
PRT36 INACTIVE NAR UIC12
PRT37 INACTIVE NAR UIC12
PRT38 ACTIVE NAR UIC12 ADIGA JOB02704
PRT39 ACTIVE NAR UIC12 ADONOVAN JOB02138
PRT40 DRAINED NAR UIC12
PRT41 DRAINED NAR UIC12
PRT42 ACTIVE NAR UIC12 BFM1 JOB09784
PRT43 ACTIVE NAR UIC12 D58RXS1 TSU21026
PRT44 DRAINED NAR UIC12
PRT45 INACTIVE NAR UIC12
PRT46 ACTIVE NAR UIC12 FKETTER JOB28755

```

Printer Panel

Stop and start initiators

SDSF displays the class and status of all initiators defined for each system, and the name and number of the job assigned to each initiator. Using this information, you can decide how to schedule jobs to make optimal use of the system's resources.

```

Display Filter View Print Options Help
-----
SDSF INITIATOR DISPLAY                               LINE 1-20 (30)
COMMAND INPUT ==>> _                               SCROLL ==>> PAGE
NP ID Status Classes Jobname StepName ProcStep JobID
1 ACTIVE ABJ BERKEA5 FINDDA JOB00068
2 INACTIVE N
3 DRAINED CBA
4 DRAINED JIFAB74
5 DRAINED EB74A
6 DRAINED BAG

```

Initiator Panel

Control lines

SDSF displays the status of each NJE and RJE line and its associated transmitters and receivers. You can start, drain, and restart the devices. By typing over fields, you can change characteristics of the devices.

SDSF also shows information about the job currently being processed by a transmitter or receiver, such as the number of lines that have been processed.

```

Display Filter View Print Options Help
-----
SDSF LINE DISPLAY                               LINE 1-20 (34)
COMMAND INPUT ==>> _                               SCROLL ==>> CSR
NP DEVICE Status Unit Node Jobname JobID
LINE1 ACTIVE B00 PLPSB
L1.JR1 INACTIVE
L1.JT1 INACTIVE
L1.SR1 ACTIVE WOODVINE RSCS1900
L1.ST1 ACTIVE LETTERSKA JOB01234
LINE2 DRAINED
LINE3 ACTIVE B00 PLPSB
L3.JR1 INACTIVE
L3.JT1 INACTIVE
L3.SR1 ACTIVE WOODVINE RSCS1903
L3.ST1 ACTIVE LETTERSKX JOB02243

```

Lines Panel

Offload the spool

You can better manage the spool because SDSF makes it easy to control the spool offload devices. SDSF displays the status of each offloader and its associated transmitters and receivers, and shows information about the jobs being processed. You can start, drain, and restart the devices. Typing over fields lets you set characteristics of the devices, and control the jobs that are selected.

```

Display  Filter  View  Print  Options  Help
-----
SDSF SPOOL OFFLOAD DISPLAY                               LINE 1-20 (25)
COMMAND INPUT ==>_                                     SCROLL ==> CSR
NP  DEVICE  Status  Type      Jobname  JobID
   OFFLOAD1 ACTIVE  TRANSMIT
   OFF1.JT  INACTIVE
   OFF1.ST  ACTIVE      SDSF    STC00035
   OFF1.JR  STARTABLE
   OFF1.SR  STARTABLE
   OFFLOAD2 DRAINED
   OFF2.JT  STARTABLE
   OFF2.ST  STARTABLE
   OFF2.JR  STARTABLE
   OFF2.SR  STARTABLE

```

Spool Offload Panel

Manage spool volumes

SDSF displays the status, usage information and characteristics of JES2 spool volumes. You can start, drain and halt spool volumes.

```

Display  Filter  View  Print  Options  Help
-----
SDSF SPOOL DISPLAY  AQFT  82%  ACT 181500 FRE  31185
COMMAND INPUT ==>
NP  VOLUME Status  TGPct  TGNum  TGUse  Command  Saff  Ext
   SPOL1C ACTIVE  99 16500 16487  ANY  0A
   SPOL1D ACTIVE  83 16500 13718  ANY  0B
   SPOL1E ACTIVE  79 16500 13107  ANY  0C

```

Spool Volumes Panel

Manage system resources

Reduce problem management time

SDSF lets you view the system log online and search for specific information using SDSF commands. You can also view a merged sysplex log. A separate display of system requests, which includes WTORS and action messages, makes it easy to find and reply to those messages.

Avoid printing the system logs

With SDSF, you can view an up-to-date copy of the log online, and therefore, print the log less often. Individual users can have a private log of their own activity. This user session log captures all commands and responses for one user ID.

You can specify which system's log you want to display.

```

N 4000000 AQFT 01303 16:37:20.94 JOB23185 00000091 $HASP395 DIANAM ENDED
NC0000000 AQFT 01303 16:37:21.33 INTERNAL 00000281 SE '16.37.21 JOB23185 $H
SC
N 0000000 AQFT 01303 16:37:21.37 TSU21704 00000081 IEF126I RIMFIRE - LOGGED
N 4000000 AQFT 01303 16:37:21.37 TSU21704 00000091 $HASP395 RIMFIRE ENDED
N 0000000 AQFT 01303 16:37:26.65 00000291 IEA989I SLIP TRAP ID=X33
N 0200000 AQFT 01303 16:37:29.08 JOB23211 00000081 $HASP100 D75CEM1C ON INT
S
N 0000000 AQFT 01303 16:37:29.14 JOB23211 00000281 IRR010I USERID D75CEM1
N 0020000 AQFT 01303 16:37:29.33 JOB23211 00000081 ICH70001I D75CEM1 LAST
N 4000000 AQFT 01303 16:37:29.34 JOB23211 00000091 $HASP373 D75CEM1C STARTE
N 0000000 AQFT 01303 16:37:29.35 JOB23211 00000091 IEF403I D75CEM1C - STAR
8000000 AQFT 01.10.09 STC17351 *60 DSI802A CNM03 REPLY WITH VALID NCCF SY
8000000 AQFT 01.04.42 *57 DSI802A M03AO REPLY WITH VALID NCCF SY
0002000 AQFT 01.49.45 STC15235 *12 DENQ002D ENQ Monitor - Reply 'ENQ' or 'EN
***** BOTTOM OF DATA *****

```

Syslog Panel

WTORS are shown at the bottom of the panel.

Control and manage a multi-access spool (MAS)

SDSF displays the status of all the systems, simplifying the task of controlling and managing a MAS. You can start, restart, or stop a member.

Display	Filter	View	Print	Options	Help	

SDSF MAS DISPLAY S32		DEFINED SYSTEMS		9%	SPOOL	
COMMAND INPUT ==>_				SCROLL ==>	PAGE	
NP	NAME	Status	SID	PrevCkpt	Hold	ActHold
S01	ACTIVE		1	26.75	0	6
S02	ACTIVE		2	37.72	0	5
S03	INACTIVE		3	0.00	0	0
S04	INACTIVE		4	0.00	0	0
S05	ACTIVE		5	23.44	0	6
S06	ACTIVE		6	21.83	0	6
S07	INACTIVE		7	0.00	0	0
S08	ACTIVE		8	44.29	0	5

MAS Panel

Control and manage nodes

You can see the status of each node, and modify its characteristics, such as what the node transmits and receives. With action characters, you can start node communication on a line, and display information about the network connections or paths for a node.

Display	Filter	View	Print	Options	Help

SDSF NODE DISPLAY SYSA1N	N2			LINE 1-9 (38)	
COMMAND INPUT ==>_				SCROLL ==>	CSR
NP	NUMBER	NodeName	Status	Authority	
N1	KGNVLSI	VIA LINE2/SYSA1N		(D=Y,J=Y,N=Y,S=Y)	
N2	SYSA1N	OWNNODE		(D=N,J=Y,N=N,S=Y)	
N3	SYSA2N	UNCONNECTED		(D=Y,J=Y,N=N,S=Y)	
N4	SYSA3N	UNCONNECTED		(D=Y,J=Y,N=N,S=Y)	
N5	SYSA4N	UNCONNECTED		(D=N,J=Y,N=N,S=Y)	
N6	SYSA5N	UNCONNECTED		(D=Y,J=Y,N=N,S=Y)	
N7	SYSA6N	UNCONNECTED		(D=Y,J=Y,N=N,S=Y)	
N8	POKVML4	VIA LINE2/SYSA1N		(D=Y,J=Y,N=N,S=Y)	
N9	SYSA8N	UNCONNECTED		(D=Y,J=Y,N=N,S=Y)	

Node Panel

Display WLM enclaves

View the status of WLM enclaves, and the CPU time each has consumed. With a single character command, you can quickly see all instances of a multi-system enclave.

Display	Filter	View	Print	Options	Help		

SDSF ENCLAVE DISPLAY (ALL ALL				LINE 0-0 (0)			
COMMAND INPUT ==>_				SCROLL ==>	CSR		
NP	TOKEN	SSType	Status	SrvClass	Per	PGN	RptClass
1800000005	DB2		ACTIVE	SYSCLASS	1	2	ACCLASS
2800000104	IMS		ACTIVE	SYSCLASS	2	4	BCLASS
12280000000	MQ		ACTIVE	ACCLASSA	3	1	BCLASS
30300330005	MQ		ACTIVE	BCLASSB	4	2	BCLASS
32800000003	MQ		ACTIVE	SYSCLASS	5	5	CCLASS
89000000026	MQ		ACTIVE	SYSCLASS	5	5	CCLASS
99800000005	MQ		ACTIVE	TSYSCLAS	6	6	DCLASS

Enclave Panel

Control z/OS Unix System Services

Processes

The PS panel shows the status and owner of each process, and the CPU time each has consumed. You can cancel a process.

Display	Filter	View	Print	Options	Help

SDSF PROCESS DISPLAY SY1 ALL				LINE 1- 10 (10)	
COMMAND INPUT ==>_				SCROLL ==>	CSR
NP	JOBNAME	Status	Owner	State	CPU-
BPXOINIT	SWAPPED,	RUNNING	SYSTASK	MRI	1
MQS1CHIN	RUNNING		MQS	1R	11
MQS1CHIN	RUNNING		MQS	1R	12
MQS1CHIN	FILE SYS	KERNEL WAIT	MQS	1F	20
KDMQDKJ	RUNNING		SYSTASK	HR	

Process Panel

Control JES2 Resources

The RM panel shows the status of each of the JES2 resources. You can change the limit and warning threshold for a resource.

Display	Filter	View	Print	Options	Help		

SDSF RESOURCE MONITOR DISPLAY SY1				LINE 1- 10 (10)			
COMMAND INPUT ==>_				SCROLL ==>	CSR		
NP	RESOURCE	SysId	Limit	InUse	InUse%	Warn%	IntAvg
BERT	AQTS	64100	1529	2.38	80	1535	
BSCB	AQTS	130	17	13.07	80	18	
BUFV	AQTS	500	0	0.00	90	0	
CKVR	AQTS	10	0	0.00	80	0	
CMBS	AQTS	813	0	0.00	50	0	

Resource Monitor Panel

IBM Health Checker for z/OS Checks

With the CK panel, you can monitor and manage the IBM Health Checker for z/OS checks. The panel lets you look at the most recent instance of each check. You can issue commands, modify check attributes and browse the check output.

```

Display  Filter  View  Print  Options  Help
-----
SDSF HEALTH CHECKER DISPLAY SY1 LINE 1-19
COMMAND INPUT ==> SCROLL==>CSR
NP NAME CheckOwner State
  CSVTAM_T1BUF_T2BUF_EE IBMCS ACTIVE (ENABLED)
  GRS_CONVERT_RESERVES IBMGRS ACTIVE (ENABLED)
  GRS_GRSQ_SETTING IBMGRS ACTIVE (ENABLED)
  ASM_LOCAL_SLOT_USAGE IBMASM ACTIVE (ENABLED)
  ASM_NUMBER_LOCAL_DATASETS IBMASM ACTIVE (ENABLED)

```

Health Checker Panel

Customize SDSF panels

Any SDSF user can:

- Set the color, highlighting, and intensity of the SDSF panels to suit individual taste
- Display the valid actions for each panel
- Arrange the order and widths of columns on SDSF panels

Column	Width
— SysName	8
/_ Real	4
— Paging	6
— SIO	6
— CPU%	6
— SrvClass	8
a_ StepName	8
— ProcStep	8
— Owner	8
— Status	6
— C	1
— ASID	4
— ASIDX	5
— CPU-Time	10
— SR	2

Sort and filter

Using SDSF commands or pop-up windows, you can sort and filter information to show just what you need:

- Sort by column
- Filter on any column or combination of columns
- Filter data by owner, destination or job name

```

Filter Row 1 to 9 of 25
Command ==>

Type filter criteria. Type a / in the Column or Oper
fields for valid values. Press F11/23 to clear all
filter criteria.

Filtering is OFF

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

Column Oper Value (may include * and %)
sysname eq syl
cpu% ge .5

```

Secure SDSF Function

The system programmer can control which SDSF panels users can display, which objects and columns of data are displayed on those panels, which SDSF commands users can issue and which fields they can modify.

You can establish security through SDSF parameters and exit points or you can use the standard interface (SAF, the System Authorization Facility) in conjunction with an external security program. SDSF is designed for and intended to be used with IBM's Resource Access Control Facility (RACF). However, you can implement any security product that supports the 1.9 level of the RACROUTE macro.

The SDSF parameters can be defined either as assembler macros or statements. The statements, used with an SDSF server, allow you to dynamically update SDSF parameters without the need to assemble SDSF macros.

Learn about SDSF

No training is needed to use SDSF because the action bar and pop-up windows guide you through the tasks you need to perform. For assistance, you can consult a variety of information.

- The **online interactive tutorial** lets you try the most common tasks.
- **Help panels** describe SDSF panels, commands, and messages. You can install them in English and Japanese.
- ***SDSF Operation and Customization***, the SDSF manual, provides detailed information for the system programmer. SDSF provides an interface to BookManager that lets you search this and other online books without leaving SDSF.
- The **SDSF Web site** has tips, presentations, and the latest information, at www.ibm.com/servers/eserver/zseries/zos/sdsf/.
- The **SDSF customization wizard** helps you exploit SDSF's sysplex function, and is an interactive reference to SAF resources, at www.ibm.com/servers/eserver/zseries/zos/wizards/sdsf/sdsfv1r1/