

SDSF Hidden Treasures

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Session **HF**



Objectives

- Manipulating SDSF Tables
 - Set options
 - Fastpath Select
 - Locate Column
 - Arrange
 - Filter
 - Show
 - Block Actions
 - Overtype Extension
 - Snapshot
 - Point-and-shoot
- Browse Sessions
- Slash Extensions
- Searching Data Set Lists
- Running REXX inside SDSF
- Using SDSF To Understand SDSF Security

Manipulating SDSF Tables

SET Command

- SET command allows numerous options at the user level
 - Saved in ISPF profile
 - There are numerous other SET commands not described here
- **SET DISPLAY ON | OFF**
 - Show PREFIX, OWNER, DEST and SYSNAME above column titles
- **SET ACTION ON | LONG | SHORT | OFF**
 - Show valid action characters
- **SET SCREEN**
 - Change screen colours and highlighting
- **SET CONSOLE *name***
 - Set EMCS console name for operator commands
- **SET DATE MMDDYYYY | DDMMYYYY | YYYYMMDD separator**
 - Set date format and optionally the separator character

General Tips

- Use **SET DISPLAY ON** to show current settings of your prefix, owner and sysname
- Use **SET ACTION ON | SHORT** to display valid action characters
 - Depending on the number of actions, this can eat into screen real estate!
- Use **PREFIX **** and **OWNER *userid*** to default to your own jobs
 - **PREFIX **** is a special case so the H panel will display all jobs
- Use **Options** pull-down menu choice in ISPF for guided settings
- Use the in-product help
 - **HELP command**
 - **SEARCH word1 [word2 word3 word4]**
 - **COLH**
 - **CMDH**
 - **ACTH**

Help on SDSF command
Search for words in SDSF help
Column definitions for panel(s)
Primary command definitions
Action definitions

Fastpath Select

The image displays two windows of the SDSF Fastpath Select interface. The top window shows the command input: `SDSF DA RS22 (ALL) PAG 0 CPU/L 43/ 16 LINE 1
COMMAND INPUT ==> s *dbm1 |
PREFIX=* DEST=(ALL) OWNER=PDSCOT SORT=JOBNAME/A SYSNAME=x
NP JOBNAME StepName ProcStep JobID Owner C Pos DP Re`. The bottom window shows the resulting data, which includes columns for NP, JOBNAME, StepName, ProcStep, JobID, Owner, and various performance metrics like CPU, TPS, and DPF.

SELECT | S pattern1 [pattern2]

Temporary filter on fixed field using standard “*” and “%” masking characters.

Override OWNER and PREFIX if authorized.

Some panels accept second parameter to filter on another column, for example JOBID on “ST”.

Locate Column

```
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF STATUS DISPLAY ALL CLASSES
COMMAND INPUT ==> l tgpc_
PREFIX=*
DEST=(ALL) OWNER=PDSCOT SORT=End-Date//A End-Time
NP   JOBNAME  JobID  Owner  Prty  Queue   C   Pos  Saff
PDSCOT  T078891 PDSCOT    15 EXECUTION      RS22
PDSCOT0 J078555 PDSCOT
PDSCOT1 J0785
PDSCOT26 J0785
PDSCOT29 J0785
PDSCOT11 J0785
PDSCOT19 J0785
PDSCOT8 J0785
PDSCOT9 J0785
PDSCOT10 J0785
PDSCOT7 J0785
PDSCOT2 J0785
PDSCOT17 J0785
PDSCOT25 J0785
PDSCOT14 J0785
PDSCOT5 J0785
PDSCOT22 J0785
PDSCOT4 J0785
PDSCOT3 J0785
PDSCOT6 J0785
PDSCOT23 J0785
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF STATUS DISPLAY ALL CLASSES
COMMAND INPUT ==>
PREFIX=*
DEST=(ALL) OWNER=PDSCOT SORT=End-Date//A End-Time
NP   JOBNAME  TGpc  OrigNode  ExecNode  Device
PDSCOT  0.00 LOCAL  LOCAL
PDSCOT0 0.01 LOCAL  LOCAL
PDSCOT1 0.00 LOCAL  LOCAL
PDSCOT26 0.00 LOCAL  LOCAL
PDSCOT29 0.00 LOCAL  LOCAL
PDSCOT11 0.00 LOCAL  LOCAL
PDSCOT19 0.00 LOCAL  LOCAL
PDSCOT8 0.00 LOCAL  LOCAL
PDSCOT9 0.00 LOCAL  LOCAL
PDSCOT10 0.00 LOCAL  LOCAL
PDSCOT7 0.00 LOCAL  LOCAL
PDSCOT2 0.00 LOCAL  LOCAL
PDSCOT17 0.01 LOCAL  LOCAL
PDSCOT25 0.00 LOCAL  LOCAL
PDSCOT14 0.00 LOCAL  LOCAL
PDSCOT5 0.00 LOCAL  LOCAL
PDSCOT22 0.00 LOCAL  LOCAL
PDSCOT4 0.00 LOCAL  LOCAL
PDSCOT3 0.00 LOCAL  LOCAL
PDSCOT6 0.00 LOCAL  LOCAL
PDSCOT23 0.01 LOCAL  LOCAL
0.1 01/06/23.006 01:49PM rs22
M a
M a
4,21
```

LOCATE | L *column_name*

Used to position to column instead of left/right scrolling.

Aligns column to first just after fixed field.

Use enough characters to uniquely identify the desired column, however will position to first column name that matches specification characters.

Arrange

ARR command to re-order columns on panel (save in ISPF profile)

Syntax

ARR <i>column_name</i> FIRST	Put column first
ARR <i>column_name</i> LAST	Put column last
ARR <i>column_name1</i> B <i>column_name2</i>	Put column before another
ARR <i>column_name1</i> A <i>column_name2</i>	Put column after another
ARR <i>column_name1</i> A .END	Hide column
ARR <i>column_name</i> nn	Set column width to nn
ARR DEFAULT	Reset column order

Arrange Column

The figure displays two side-by-side screenshots of the RS22 SDSF AS DISPLAY interface. Both windows show the same command input and system information, but differ in the arrangement of the columns.

Top Window (Original Order):

```
SDSF AS DISPLAY RS22      RS22
COMMAND INPUT ===> arr epriv% a fixed_
PREFIX=* DEST=( ALL ) OWNER=PDSCOT SORT=JOBNAME/A SYSNAME=
NP  JOBNAME  ASIDX  Real Fixed   CSA  CSA%    ECSA  ECSA%    SQA  SQA%    ESQA  ESQA%    Aux MemLimit MemObjNum MemObjUse
*MASTER* 0001    534T  6365     156144  4.63  14461672  2.01  60840  3.57  7581384  7.64  0  16383PB  2  4M
AC1ADBM1 0480  81282  1443     4096   0.12  591976   0.08   64   0.00  12952  0.01   0   4TB    28  57274M
```

Bottom Window (Column Arranged):

```
SDSF AS DISPLAY RS22      RS22
COMMAND INPUT ===>
PREFIX=* DEST=( ALL ) OWNER=PDSCOT SORT=JOBNAME/A SYSNAME=
NP  JOBNAME  ASIDX  Real Fixed EPriv%   CSA  CSA%    ECSA  ECSA%    SQA  SQA%    ESQA  ESQA%    Aux MemLimit MemObjNum Me
*MASTER* 0001    534T  6365     0.04  156144  4.63  14461672  2.01  60840  3.57  7581496  7.64  0  16383PB  2
AC1ADBM1 0480  81282  1443     7.85  4096   0.12  591976   0.08   64   0.00  12952  0.01   0   4TB    28
AC1ADIST 0344  206    0.54     160    0.00  3760120   0.52   64   0.00  1728   0.00   0   16383PB  11
AC1AIRLM 04EA  3163   104    0.32     0    0.00  1137680   0.15  256   0.01  464    0.00   0   2160MB  11
AC1AMSTR 0471  3042   857    0.18     2216   0.06  5302784   0.73   64   0.00  23496  0.02   0   16383PB  17
ADHMAC1A 01C0  904    87     0.21     0    0.00  13312    0.00   64   0.00  296    0.00   0   16383PB  5
ADHMA91A 05F4  908    91     0.21     0    0.00  4096    0.00   64   0.00  296    0.00   0   16383PB  5
ADQ3DS  05A6  33789   705    12.31    160   0.00  10784    0.00   0    0.00  664    0.00   0   16383PB  67
ADQ3YN  067D  53399   741    10.84    160   0.00  8384    0.00   0    0.00  792    0.00   0   16383PB  194
ADQ3YNSA 0649  556    120    0.04     0    0.00   0    0.00   0    0.00  144    0.00   0   16383PB  9
ADQ3YNSA 065F  33370   262    43.88    0    0.00   0    0.00   0    0.00  144    0.00  18   16383PB  11
ADQ3YNSA 067E  420    87     0.00     0    0.00   736    0.00   64   0.00  408    0.00   0   16383PB  8
ALLOCAS  0017  9510   605    0.43     0    0.00  3064    0.00   0    0.00  2624   0.00   0
ANTAS000 000E  1719   198    0.42     0    0.00  186032   0.02   0    0.00  2560   0.00   0   16383PB  1
ANTMAIN  000D  2390   225    0.65     0    0.00  801432   0.11   0    0.00  448    0.00
ANZPROC  0108  6872   129    2.52     0    0.00   736    0.00   64   0.00  40
APPC    002F  2087   639    1.28     160   0.00  94304   0.01   0    0.00  137
ARYF32A2 0053  16812   502    5.58     0    0.00   0    0.00   0    0.00  14
ARYL32A2 0217  15899   476    5.53     0    0.00   0    0.00   0    0.00  14
ARY032A2 0040  15825   460    5.53     0    0.00   0    0.00   0    0.00  14
ARYSHR  0113  508     90    0.02     0    0.00   0    0.00   0    0.00  14
```

Note: The 'EPriv%' column has been moved to the second position in the bottom window's output.

Note that you can use "ARR ?" to display ISPF pop-up panel to perform guided arrange actions.

Filter

- Use **FILTER | FIL** command to select rows to be displayed
 - Applied after **PREFIX**, **OWNER**, **DEST**, and **SYSNAME** processing
 - Saved in ISPF profile
 - Use **FILTER ?** to drive pop-up while in ISPF to compose expressions with multiple filters

Syntax

FILTER ON | OFF

Turn filtering on or off

FILTER AND | OR

How to treat multiple expressions

FILTER column_name [operator] value

Specify FILTER criteria

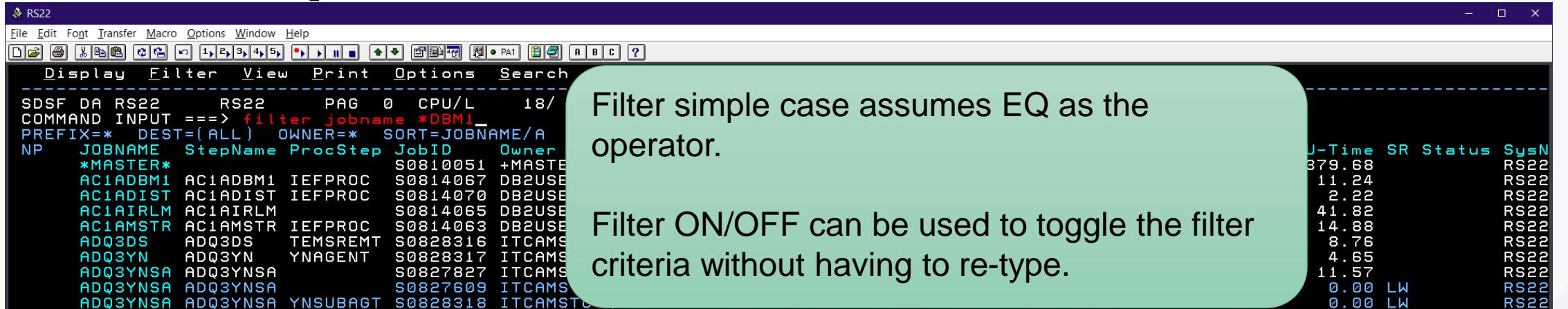
Operator values :

LT,LE,EQ,NE,GE,GT

Default operator is **EQ**

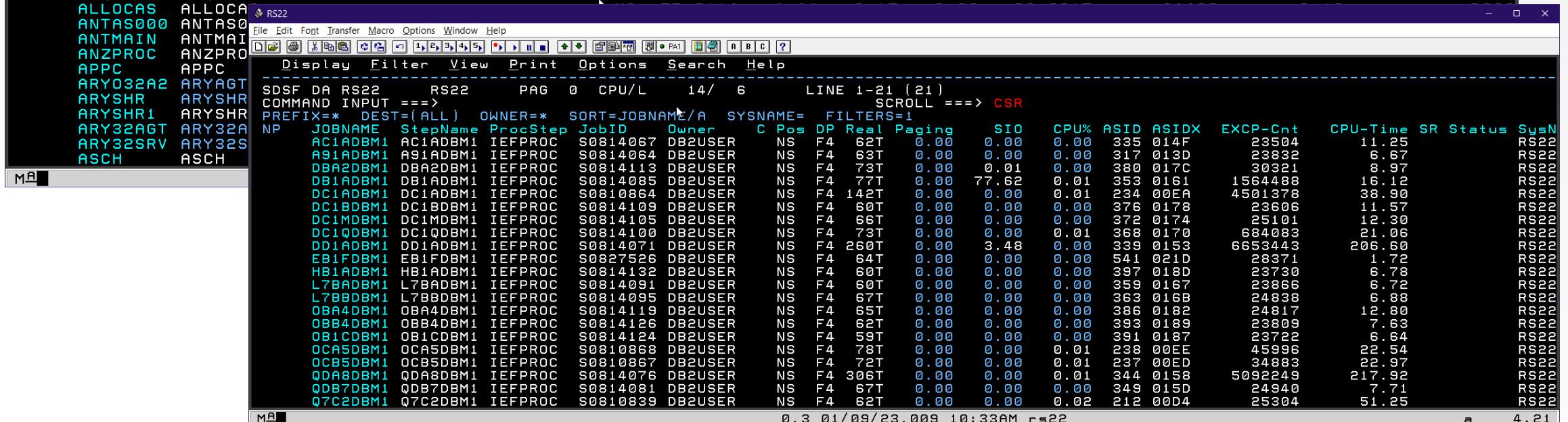
<,<=,=,<>,>,GE

Filter Simple Case



```
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search
SDSF DA RS22      RS22      PAG  0  CPU/L   18/
COMMAND INPUT ===> filter jobname *DBM1_
PREFIX=* DEST=(ALL) OWNER=* SORT=JOBNAME/A
NP  JOBNAME StepName ProcStep JobID Owner
  *MASTER*           S0810051 +MASTER
  AC1ADBM1  AC1ADBM1 IEFPROC  S0814067 DB2USER
  AC1ADIST  AC1ADIST IEFPROC  S0814070 DB2USER
  AC1AIRLM  AC1AIRLM IEFPROC  S0814065 DB2USER
  AC1AMSTR  AC1AMSTR IEFPROC  S0814063 DB2USER
  ADQ3DS   ADQ3DS  TEMSREMT S0828316 ITCAMS
  ADQ3YN   ADQ3YN  YNAGENT   S0828317 ITCAMS
  ADQ3YNSA ADQ3YNSA          S0827827 ITCAMS
  ADQ3YNSA ADQ3YNSA          S0827609 ITCAMS
  ADQ3YNSA ADQ3YNSA          S0828318 ITCAMSTC
  ALLOCAS  ALLOCAS          RS22
ANTAS000 ANTAS000
ANTMAIN ANTMALI
ANZPROC ANZPRO
APPC APPC
ARY032A2 ARYAGT
ARYSHR ARYSHR
ARYSHR1 ARYSHR
ARY32AGT ARY32A
ARY32SRV ARY32S
ASCH ASCH
File Edit Font Transfer Macro Options Window Help
```

Filter simple case assumes EQ as the operator.



```
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF DA RS22      RS22      PAG  0  CPU/L   14/ 6  LINE 1-21 (21)
COMMAND INPUT ===> SCROLL ===> CSR
PREFIX=* DEST=(ALL) OWNER=* SORT=JOBNAME/A SYSNAME= FILTERS=1
NP  JOBNAME StepName ProcStep JobID Owner   C Pos DP Real Paging   SIO  CPU% ASID ASIDX EXCP-Cnt CPU-Time SR Status SysN
  AC1ADBM1  AC1ADBM1 IEFPROC  S0814067 DB2USER  NS F4 62T 0.00  0.00  0.00  335 014F 23504 11.25 RS22
  A91ADBM1  A91ADBM1 IEFPROC  S0814064 DB2USER  NS F4 63T 0.00  0.00  0.00  317 013D 23832 6.67 RS22
  DBA2DBM1  DBA2DBM1 IEFPROC  S0814113 DB2USER  NS F4 73T 0.00  0.01  0.00  380 017C 30321 8.97 RS22
  DB1ADBM1  DB1ADBM1 IEFPROC  S0814085 DB2USER  NS F4 77T 0.00  77.62 0.01  353 0161 1564488 16.12 RS22
  DC1ADBM1  DC1ADBM1 IEFPROC  S0810864 DB2USER  NS F4 142T 0.00  0.00  0.01  234 00EA 4501378 38.90 RS22
  DC1BDBM1  DC1BDBM1 IEFPROC  S0814109 DB2USER  NS F4 60T 0.00  0.00  0.00  376 0178 23606 11.57 RS22
  DC1MDBM1  DC1MDBM1 IEFPROC  S0814105 DB2USER  NS F4 66T 0.00  0.00  0.00  372 0174 25101 12.30 RS22
  DC1QDBM1  DC1QDBM1 IEFPROC  S0814100 DB2USER  NS F4 73T 0.00  0.00  0.01  368 0170 684083 21.06 RS22
  DD1ADBM1  DD1ADBM1 IEFPROC  S0814071 DB2USER  NS F4 260T 0.00  3.48 0.00  339 0153 6653443 206.60 RS22
  EB1FDBM1  EB1FDBM1 IEFPROC  S0827526 DB2USER  NS F4 64T 0.00  0.00  0.00  541 021D 28371 1.72 RS22
  HB1ADBM1  HB1ADBM1 IEFPROC  S0814132 DB2USER  NS F4 60T 0.00  0.00  0.00  397 018D 23730 6.78 RS22
  L7BDBM1   L7BDBM1  IEFPROC  S0814091 DB2USER  NS F4 60T 0.00  0.00  0.00  359 0167 23866 6.72 RS22
  L7BBDBM1  L7BBDBM1 IEFPROC  S0814095 DB2USER  NS F4 67T 0.00  0.00  0.00  363 016B 24838 6.88 RS22
  OBA4DBM1  OBA4DBM1 IEFPROC  S0814119 DB2USER  NS F4 65T 0.00  0.00  0.00  386 0182 24817 12.80 RS22
  OBB4DBM1  OBB4DBM1 IEFPROC  S0814126 DB2USER  NS F4 62T 0.00  0.00  0.00  393 0189 23809 7.63 RS22
  OB1CDBM1  OB1CDBM1 IEFPROC  S0814124 DB2USER  NS F4 59T 0.00  0.00  0.00  391 0187 23722 6.64 RS22
  OCA5DBM1  OCA5DBM1 IEFPROC  S0810868 DB2USER  NS F4 78T 0.00  0.00  0.01  238 00EE 45996 22.54 RS22
  OCB5DBM1  OCB5DBM1 IEFPROC  S0810867 DB2USER  NS F4 72T 0.00  0.00  0.01  237 00ED 34883 22.97 RS22
  QDA8DBM1  QDA8DBM1 IEFPROC  S0814076 DB2USER  NS F4 306T 0.00  0.00  0.01  344 0158 5092249 217.92 RS22
  QDB7DBM1  QDB7DBM1 IEFPROC  S0814081 DB2USER  NS F4 67T 0.00  0.00  0.01  349 015D 24940 7.71 RS22
  Q7C2DBM1  Q7C2DBM1 IEFPROC  S0810839 DB2USER  NS F4 62T 0.00  0.00  0.02  212 00D4 25304 51.25 RS22
0.3 01/09/23.009 10:33AM rs22
a 4,21
```

Filter Pop-Up

The screenshot shows the RS22 command line interface. A 'Filter' pop-up window is displayed, prompting for 'Command ==>'. It contains instructions: 'Type filter criteria. Press F4/16 in the Column or field for values, or in the Value field for system'. Below this, it says 'Press F11/23 to clear all filter criteria.' The text 'Filtering is ON' is also present. The main command line area shows several filter definitions:

```

SDSF DA
COMMAND
PREFIX=*
NP JOB
AC1
AC1
AC1
AC1
AC1
Filtering is ON
A91
A91 AND/OR between columns AND (AND/OR)
A91 AND/OR within a column OR (AND/OR)
A91
DBA
Column Oper Value (may include * and
DBA JOBNAME EQ *DBM1
DBA JOBNAME EQ *MSTR
DBA JOBNAME EQ *DIST
DB1 JOBNAME EQ *IRLM
DB1 WORKLOAD EQ DB2*

```

Note multiple tests for JOBNAMEx that use “OR” logic combined with “AND” for WORKLOAD specification.

Number of active filters applied shown with “SET DISPLAY ON” in effect.

The screenshot shows the RS22 command line interface with a large list of jobs displayed. The top of the list includes fields: SDSF DA RS22, RS22, PAG 0, CPU/L 25/10, LINE 1-21 (84), SCROLL ==>, CSR, and FILTERS=5. The list itself consists of numerous entries, each containing fields such as JobName, ProcStep, JobID, Owner, C, Pos, DP, Real, Paging, SIO, CPU%, ASID, ASIDX, EXCP-Cnt, CPU-Time, SR, Status, and SysN. The 'FILTERS=5' value is circled in red in the header row. The bottom of the screen shows the timestamp 0.1 01/09/23.009 10:25AM rs22 and the page number 16,13.

Show Row Information

The screenshot shows two SDSF sessions running on an RS22 terminal. The top window displays a list of jobs and steps, while the bottom window shows detailed row information for a specific job step. A callout bubble highlights the bottom window, explaining the function of the '/' key.

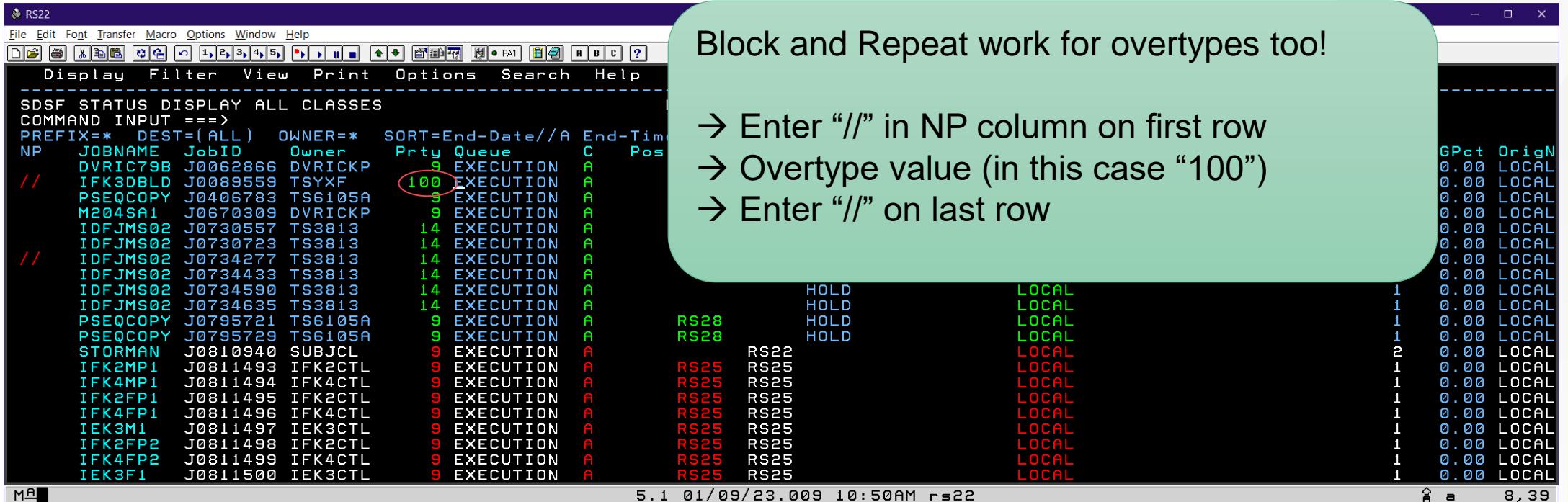
The bottom window's title bar says 'Display Filter View Print Options Search Help'. It shows a command input area with 'Command ==> /'. Below it is a table with columns: Column, Value, and Type. The table lists various job parameters like JobName, StepName, ProcStep, JobID, Owner, C, Pos, DP, Real, and Paging. The bottom right of this window shows a large table of job statistics with columns: U%, ASID, ASIDX, EXCP-Cnt, CPU-Time, SR, Status, and SysN.

A callout bubble contains the following text:

- The “/” action can be issued on any row on any SDSF table.
- Will present the row information in a vertical scrollable format.

Block and Repeat

- Block command `//` applies an action against multiple rows
- Repeat command `=` repeats last action against the current row



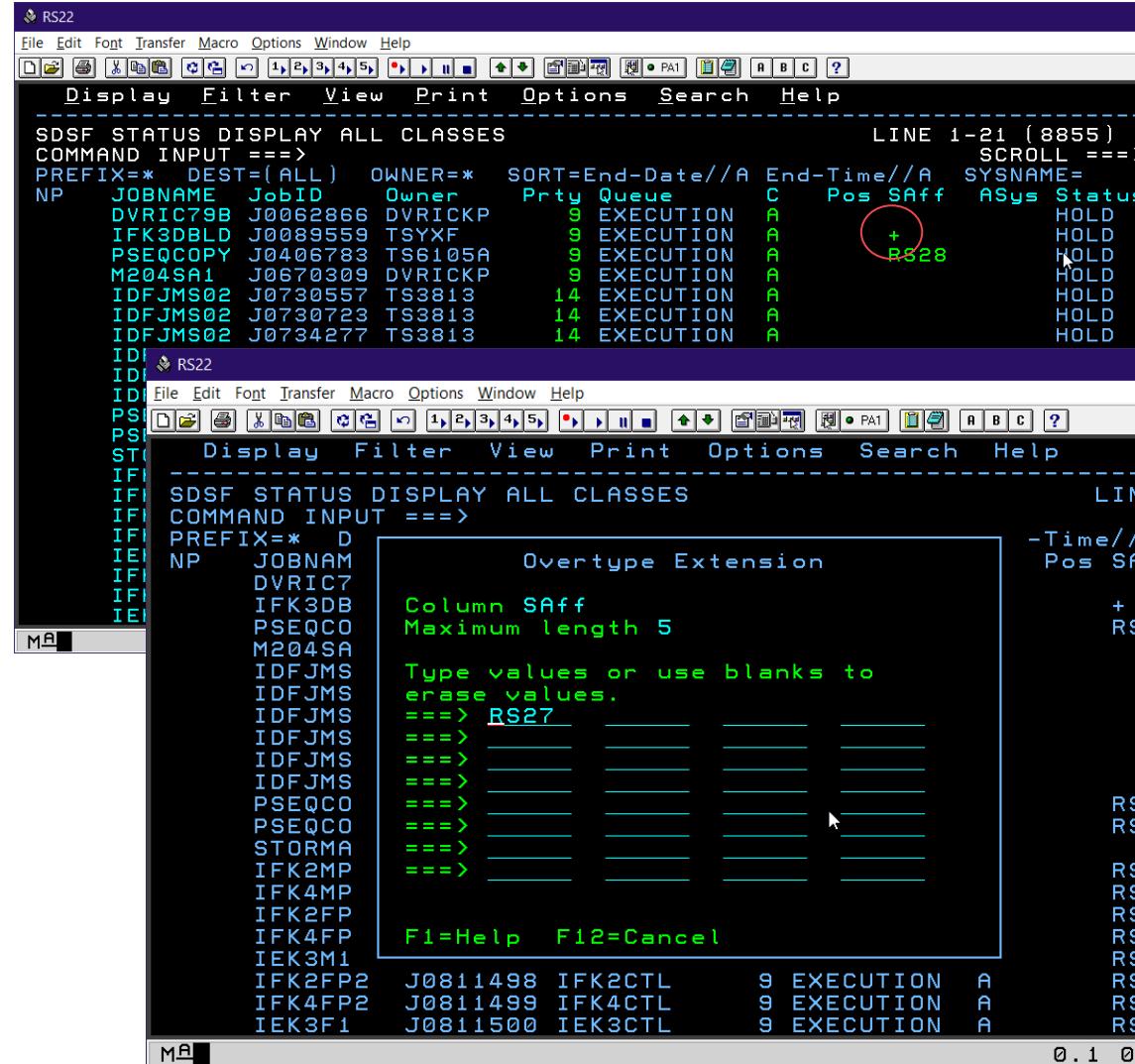
The screenshot shows the SDSF STATUS DISPLAY ALL CLASSES command output. The // command is used to apply an action (in this case, overtyping the value '100' in the NP column) across multiple rows. A callout bubble highlights this usage.

Block and Repeat work for overtypes too!

→ Enter “//” in NP column on first row
→ Overtype value (in this case “100”)
→ Enter “//” on last row

NP	JOBNAME	JobID	Owner	Prtg	Queue	C	Pos	
	DVRIC79B	J0062866	DVRICKP	9	EXECUTION	A		
//	IFK3DBLD	J0089559	TSYXF	100	EXECUTION	A		
	PSEQCOPY	J0406783	TS6105A	9	EXECUTION	A		
	M204SA1	J0670309	DVRICKP	9	EXECUTION	A		
	IDFJMS02	J0730557	TS3813	14	EXECUTION	A		
	IDFJMS02	J0730723	TS3813	14	EXECUTION	A		
//	IDFJMS02	J0734277	TS3813	14	EXECUTION	A		
	IDFJMS02	J0734433	TS3813	14	EXECUTION	A		
	IDFJMS02	J0734590	TS3813	14	EXECUTION	A		
	IDFJMS02	J0734635	TS3813	14	EXECUTION	A		
	PSEQCOPY	J0795721	TS6105A	9	EXECUTION	A		
	PSEQCOPY	J0795729	TS6105A	9	EXECUTION	A		
	STORMAN	J0810940	SUBJCL	9	EXECUTION	A		
	IFK2MP1	J0811493	IFK2CTL	9	EXECUTION	A		
	IFK4MP1	J0811494	IFK4CTL	9	EXECUTION	A		
	IFK2FP1	J0811495	IFK2CTL	9	EXECUTION	A		
	IFK4FP1	J0811496	IFK4CTL	9	EXECUTION	A		
	IEK3M1	J0811497	IEK3CTL	9	EXECUTION	A		
	IFK2FP2	J0811498	IFK2CTL	9	EXECUTION	A		
	IFK4FP2	J0811499	IFK4CTL	9	EXECUTION	A		
	IEK3F1	J0811500	IEK3CTL	9	EXECUTION	A		

Overtype Extension



Used to overtype long values.

- When column too long for column width
 - Column must be completely visible

Used to overtype multiple values.

Enter “+” in the overtype column.

- Must be only value in column
 - Erase any residual data to be recognized

Snapshot

```
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF DA RS22      RS22      PAG 0 CPU/L 33/ 11      LINE 1-
COMMAND INPUT ==> snap se -
PREFIX=* DEST=(ALL) OWNER=* SORT=JOBNAME/A SYSNAME=
NP  JOBNAME StepName ProcStep JobID Owner C Pos DP Rea
*MASTER*          S0810051 +MASTER+ NS FF 54
AC1ADBM1 AC1ADBM1 IEFPROC S0814067 DB2USER NS F8 62
AC1ADIST AC1ADIST IEFPROC S0814070 DB2USER NS F8 263
AC1AIRLM AC1AIRLM IEFPROC S0814065 DB2USER NS F8 216
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF EDIT *SNAP
Command ==> -
***** *****
000001 JOBNAME StepName ProcStep JobID Owner C
000002 *MASTER*          S0810051 +MASTER+
000003 AC1ADBM1 AC1ADBM1 IEFPROC S0814067 DB2USER
000004 AC1ADIST AC1ADIST IEFPROC S0814070 DB2USER
000005 AC1AIRLM AC1AIRLM IEFPROC S0814065 DB2USER
000006 AC1AMSTR AC1AMSTR IEFPROC S0814063 DB2USER
000007 ADQ3DS ADQ3DS TEMSREMT S0830201 ITCAMSTC
000008 ADQ3YN ADQ3YN YNAGENT S0830200 ITCAMSTC
000009 ADQ3YNSA ADQ3YNSA S0826843 ITCAMSTC
000010 ADQ3YNSA ADQ3YNSA S0829941 ITCAMSTC
000011 ADQ3YNSA ADQ3YNSA YNSUBAGT S0830202 ITCAMSTC
000012 ALLOCAS ALLOCAS
000013 ANTAS000 ANTAS000 IEFPROC
000014 ANTMMAIN ANTMMAIN IEFPROC
000015 ANZPROC ANZPROC SERVER S0811019 STCUSER
000016 APPC APPC APPC
000017 ARY032A2 ARYAGT J0829428 TS3820 A
000018 ARYSHR ARYSHR S0811127 ARYSHR
000019 ARYSHR1 ARYSHR1 S0811087 ARYSHR
000020 ARY32AGT ARY32AGT ARYSPAGT S0816994 ARYSTC
000021 ARY32SRV ARY32SRV ARYSPSRV S0816993 ARYSTC
000022 ASCH ASCH ASCH
000023 ATHSLSI1 ATHSLSI1 ATAM S0824714 STCUSER
000024 AUZJSX22 AUZJSX22 S0824290 AUZDMON
0.2 01/09/23.009 02:18PM rs22
MA
```

SNAP command can be issued on any SDSF table display and captures the results.

Accepts optional second parameter to choose the result “browse” application.

- SNAP SE ISPF EDIT
- SNAP SV ISPF VIEW
- SNAP SB ISPF BROWSE
- SNAP S SDSF browse (default)

“SET SNAP S|SB|SE|SV” can be used to override supplied default.

```
tatus SysN
RS22
RS22
RS22
RS22
RS22
001 00124
==> CSR
*****
ASID ASID
1 0001
335 014F
338 0152
314 013A
315 013B
534 0216
597 0255
497 01F1
592 0250
598 0256
000 0000
23 0017
14 000E
13 000D
266 010A
46 002E
67 0043
284 011C
271 010F
401 0191
405 0195
111 006F
488 01E8
468 01D4
0.2 01/09/23.009 02:18PM rs22
MA
2,15
```

Point-and-shoot

- SDSF supports various point-and-shoot functions
- NP
 - Invoke browse (or not) depending on **SET BROWSE**
- Fixed field
 - Invoke default action for the column
 - Example is **JDS** for JOBNAME on **DA**, **H**, **I**, **ST** and **O** panels
 - Can be toggled with **SET PAS ON | OFF**
 - Alias of **SET FFPS**
- Memory address fields
 - Invokes SDSF memory browse on the 31bit or 64bit address
 - Inherits the ASID and SYSNAME from the row (if present)

Browse Sessions

SDSF Browse

- Select action character for job output and other logical sources
 - S | SB | SE | SV Native SDSF browse
 - SB | SE | SV ISPF variants (Browse, Edit and View)
 - **SET BROWSE S | SB | SE | NONE**
 - Point-and-shoot for NP – alternate to typing
- Following points apply to native SDSF browse only
- **NEXT | N** and **PREV | P** primary commands skip to next or previous logical dataset
 - Alternative to scrolling
 - Positions to start of data set
 - Option parameter of relative dataset number (default 1)
 - **N 3** would skip three data sets
 - Can use **Sn** as action character to browse and immediately skip *n* data sets

SDSF Browse

The screenshot shows two SDSF windows. The top window displays the JES2 job log for job PDSCOTN2, showing various system messages and statistics. The bottom window shows SDSF command input and output related to job statistics and connects.

Callout text: "N 3" at top of job will skip to the first application data sysout, bypassing JESMSGLG, JESJCL and JESYSMSG

```
SDSF OUTPUT DISPLAY PDSCOTN2 JOB00774 DSID 2 LINE 0 COLUMNS 02- 133  
COMMAND INPUT ==> n 3  
***** TOP OF DATA *****  
J E S 2 J O B L O G -- S Y S T E M R S 8 8 -- N O D E N 8 8  
  
11.16.17 JOB00774 ---- MONDAY,  
11.16.17 JOB00774 IRR010I USER  
11.16.17 JOB00774 IEF677I WARNI  
11.16.17 JOB00774 ICH70001I PDS  
11.16.17 JOB00774 $HASP373 PDSC  
11.16.17 JOB00774 RKTSW01I  
11.16.17 JOB00774 RKTSW01I JO  
11.16.17 JOB00774 RKTSW01I PD  
11.16.18 JOB00774 RKTSW01I PD  
11.16.18 JOB00774 $HASP395 PDSC  
---- JES2 JOB STATISTICS ----  
30 JAN 2023 JOB EXECUTION DATE  
    27 CARDS READ  
    289 SYSOUT PRINT RECOR  
      0 SYSOUT PUNCH RECOR  
     22 SYSOUT SPOOL KBYTE  
    0.01 MINUTES EXECUTION  
1 //PDSCOTN2 JOB (ACCT#  
//          NOTIFY=PDSCOT,  
  
MA [ ]  
  
SDSF OUTPUT DISPLAY PDSCOTN2 JOB00774  
COMMAND INPUT ==>  
ADDGROUP SLIST +  
SUPGROUP(ISF) +  
OWNER(ISF) +  
DATA('Group based on SDSF NTBL name SLIST')  
  
CONNECT PORTMAP GROUP(SLIST) OWNER(ISF)  
  
ADDGROUP DEVQA +  
SUPGROUP(ISF) +  
OWNER(ISF) +  
DATA('Group based on SDSF NTBL name DEVQA')  
  
CONNECT PDFLYN GROUP(DEVQA) OWNER(ISF)  
CONNECT PDFLYNA GROUP(DEVQA) OWNER(ISF)  
CONNECT PDFLYNB GROUP(DEVQA) OWNER(ISF)  
CONNECT PDHOBS GROUP(DEVQA) OWNER(ISF)  
CONNECT PDHOBSA GROUP(DEVQA) OWNER(ISF)  
CONNECT PDHOBSB GROUP(DEVQA) OWNER(ISF)  
CONNECT PDHOBSZ GROUP(DEVQA) OWNER(ISF)  
CONNECT PDILYIA GROUP(DEVQA) OWNER(ISF)  
CONNECT PDILYAA GROUP(DEVQA) OWNER(ISF)  
CONNECT PDKURT GROUP(DEVQA) OWNER(ISF)  
CONNECT PDKURTA GROUP(DEVQA) OWNER(ISF)  
  
MA [ ] 0.1 01/30/23.030 04:18PM RS88 4,21
```

SDSF Browse Tips

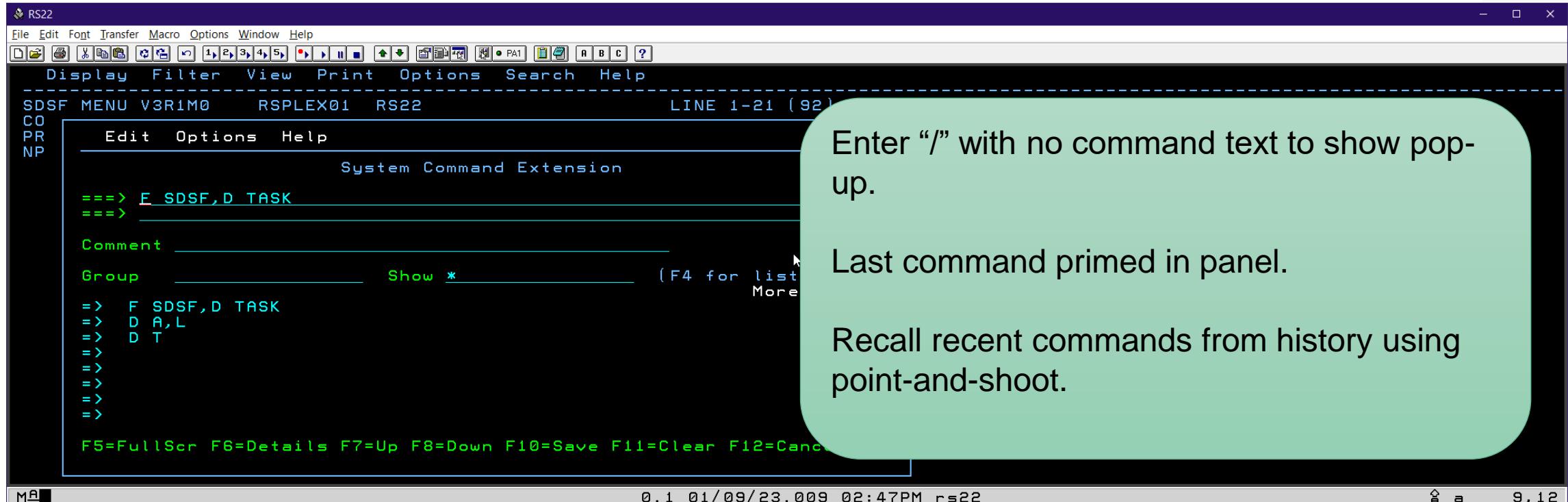
- Use **SET CURSOR ON | OFF | TOP** to control cursor placement after an action
 - ON Keep cursor on last row you worked with
 - OFF Return cursor to the primary command line
 - TOP Scroll table to last row you worked with and move cursor to command line
- Use **FINDLIM** to control number of records searched using **FIND** command
 - Use RFIND or IFIND when limit reached to continue
 - Syntax : **FINDLIM number | ?**
 - Number can be between 1000 and 9999999

Slash Extensions

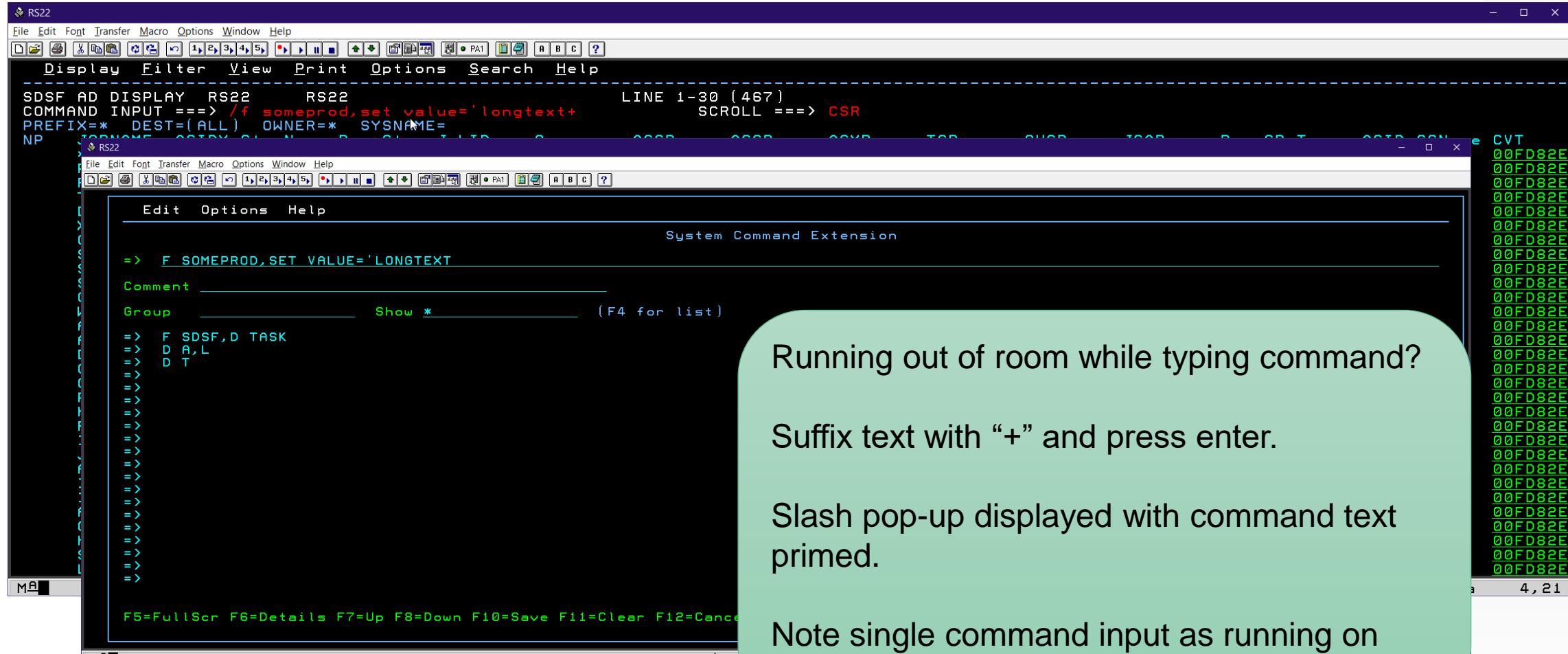
Slash Command Tips

- Enter `/` with no text to drive pop-up with recently issued commands
- Use pop-up for mixed case command text
 - `/cmdtext` will always fold to uppercase
- Screen size greater than 36x143 enables single line entry for long operator commands (z/OS 2.5+)
 - Easier to manipulate long operator commands
- End your command with `+` to continue command using pop-up
 - Good for when running out of room on normal SDSF command input

Slash Command History



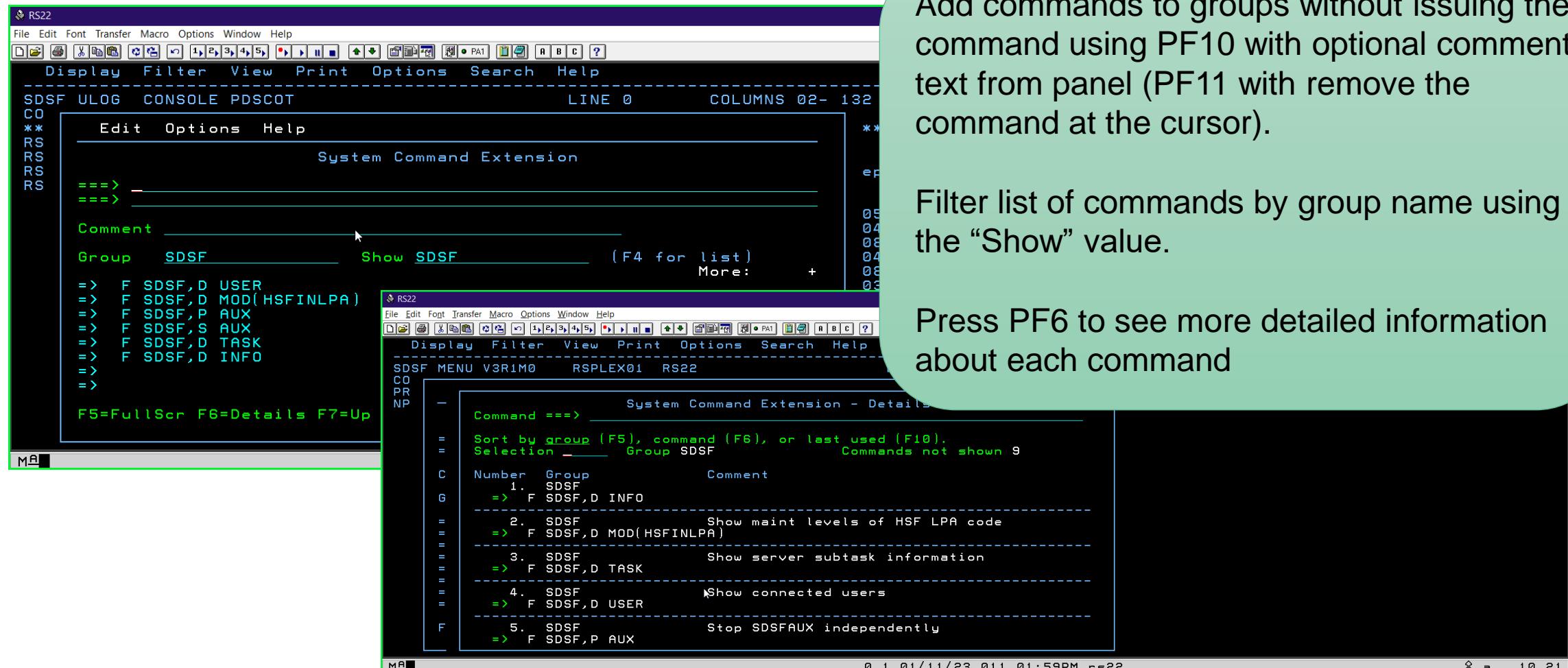
Slash Command Extension



Slash Command Groups

- Slash command pop-up allows you to :
 - Associate a command with a group
 - Associate a comment with a command
 - Display commands based on group pattern
 - List all command groups
 - Save a command without issuing it
 - Delete a single command, group of commands, or recent commands
 - View details about a command

Slash Command Groups



Searching Data Set Lists

SDSF Displays With Data Set Lists

- Starting with z/OS 2.3, SDSF includes several displays that show lists of various types of data set
 - APF Authorized Load Libraries
 - LNK Link List
 - LPA Link Pack Area List
 - PARM Logical PARMLIB
 - PROC JES2 Proclibs
 - JDD Job Allocated Data Sets (action on DA and other panels)
- Use the SRCH command to search the list using a member name pattern
 - SRCH *member_pattern* [*F* | *NF* | *ALL*]
 - Member name pattern can include standard * and % masking characters
 - Optionally restrict results by :
 - Data sets containing member (F)
 - Data sets not containing member (NF)

Searching Data Set List

The image displays three sequential screenshots of the RS22 ISPF interface, illustrating the search process for dataset members.

- Screenshot 1:** Shows the initial search command: `srch isr@pr* f -`. The results list various partitioned datasets owned by PDSCOT, such as SYSUADS, SYSLBC, SYSPRINT, ISPPROF, ISPTABL, ISPCTL1, ISPWRK1, ISPLST1, ISPCTL2, ISPWRK2, ISPLST2, ISPLOG, SYSEEXEC, RSRTE.LIBDEF.ISPPLIB.NEXT, RSRLEX01.LIBDEF.ISPPLIB, RSRTE.LIBDEF.ISPPLIB, and ISP.SISPPENU.
- Screenshot 2:** Shows the search results after filtering by found members. The results list shows the found members: RSRTE.LIBDEF.ISPPLIB.NEXT, RSRLEX01.LIBDEF.ISPPLIB, RSRTE.LIBDEF.ISPPLIB, and ISP.SISPPENU.
- Screenshot 3:** Shows a detailed view of the dataset RSRTE.LIBDEF.ISPPLIB.NEXT. The screen displays the dataset's name, size (415), creation date (2016/12/15), and last modified date (2022/05/31 09:23:14). The ID is TS5582.

Text Labels:

- "JDD" action against TSO userid PDSCOT on "DA".
- Searching for all members starting "ISR@PR" in all partitioned data sets.
- From results screen (filtered by found) , user can then use "SB", "SE" or "SV" to invoke the appropriate ISPF service on the data set name and member pattern.

Searching Logical PARMLIB

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF SYSTEM PARAMETERS RS88

COMMAND INPUT ==>

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

NP PARM Value

LPA (88, RS)

MAXCAD 50

MAXUSER 500

MLPA 00

MSTRJCL SA

NSYSLX 165

OMVS SA

OPI YES

OPT 00

OSPROTECT SYSTEM

PAGE (RS88.PAGE.PLPA,

PAGE RS88.PAGE.COMMON,

PAGE RS88.PAGE.LOCAL1)

PAGTOTL 40

PAK 00

PLEXCFG ANY

PROD 00

L PROG (RS, 88, ZZ)

RDE NO

REAL 0

RER NO

RSU 0

RSVNONR 1000

RSVSTRT 5

SCH RS

*SDSF

MA 0 . 09 /

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF DATA SET SEARCH PROG FOUND

COMMAND INPUT ==>

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

ACTION=+-Extend,/-Show,/-Block,--Repeat,SB-ISPFBrowse,SE-ISPFEdit,SV-ISPFView

NP DSNAME

RSPLEX0G.PARMLIB.ZOS205

RSPLEX0G.PARMLIB

RSPLEX0G.PARMLIB.ZOS205

RSPLEX0G.PARMLIB

RSPLEX0G.PARMLIB

RSPLEX0G.PARMLIB

LINE 1-5 (5) SCROLL ==> CSR

Seq	VolSer	Status	D
1	MCPG00	FOUND PROGRS	P
2	MCPG00	FOUND PROGRS	P
6	MCPG00	FOUND PROG88	P
7	MCPG00	FOUND PROG88	P
12	MCPG00	FOUND PROGZZ	P

MA 4 , 21

“L” action against row on SYSP will search PARMLIB datasets to show where the specified members are found.

This example shows the result of “L” issued against the PROG row on SYSP that had “(RS,88,ZZ)”

First found member of each suffix is highlighted

“Status” includes the member name

Running REXX Inside SDSF

Running REXX Against A Row

- Use % in NP column to drive pop-up panel that asks for REXX exec name and optional arguments
 - **%name** will immediately drive the “name” REXX exec (if found) bypassing the popup
 - You might need to increase NP width using the **ARR** command in order to have enough space to type **%name**
 - You can also type **+nn** in NP to set NP width to *nn* characters
- Exec passed arguments in following format :
 - *CurrentPanel PrimaryPanel RowToken PrimaryCmd (UserArgs*
 - RowToken required for any subsequent actions against the row
 - UserArgs contains any user specified arguments

Running REXX Against A Row

- Use “address SDSF ISFGET” to retrieve values for the row

```
address SDSF "ISFGET ""PrimaryCmd"" TOKEN(''RowToken'')"
```

- Use ISFQUERY() function to determine if EXEC was invoked under SDSF

```
rc=isfquery()  
if rc<>0 then  
do  
  Say "*** SDSF environment does not exist, exec ending."  
  Exit 20  
end
```

- Use ISFQUERY("INIT") to set environment variables

```
rc=isfquery("INIT")  
Say "isfprefixwas set to:" isfprefix  
Say "isfownerwas set to:" isfowner  
Say "isfdestwas set to:" isfdest
```

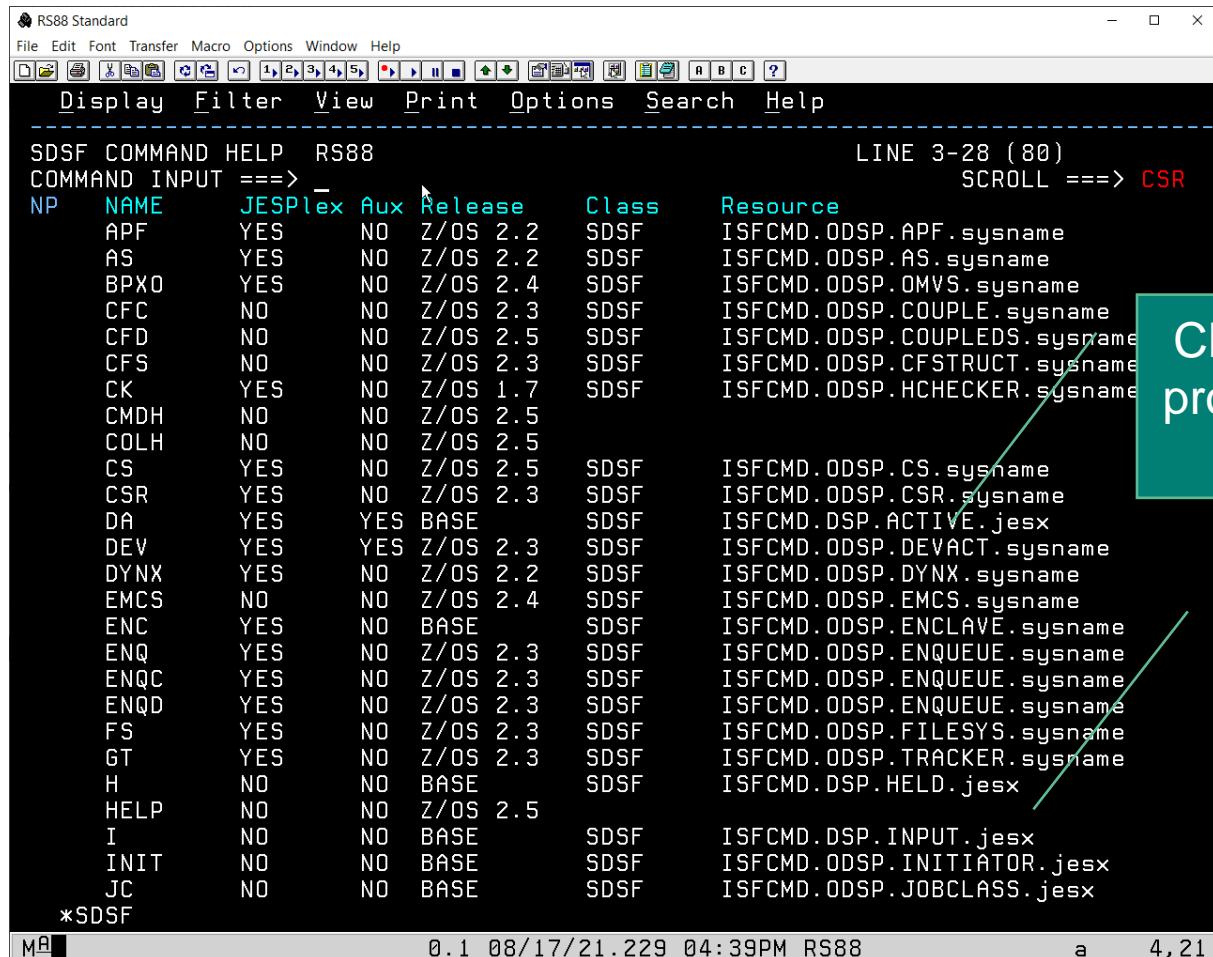
-

Generating SDSF REXX With RGEN

- **RGEN** command generates starter exec you can modify
 - By default generates all commands to navigate to the panel you are on
 - **RGEN X** will display pop-up with list of examples
 - Select example and modify as required
 - Exec is generated to ISPF temporary data set
 - Be sure to copy to permanent data set prior to editing
 - Contains ISPF note lines for tips and tricks
 - Use ISPF **MD** line command to convert to data lines if required
- Help for SDSF REXX
 - **REXXHELP** | **REXXH** command inside product
 - **COLSHELP** | **COLH** command inside product
 - SDSF User Guide – Using SDSF With The REXX Programming Language
 - Share 24671 - Learn To Use SDSF Rexx

Using SDSF To Understand SDSF Security

Primary Command Attributes - CMDH



The screenshot shows a terminal window titled "RS88 Standard" with the command "SDSF COMMAND HELP RS88". The output lists various commands and their attributes:

NP	NAME	JESplex	Aux	Release	Class	Resource
	APF	YES	NO	Z/OS 2.2	SDSF	ISFCMD.ODSP.APF.sysname
	AS	YES	NO	Z/OS 2.2	SDSF	ISFCMD.ODSP.AS.sysname
	BPXO	YES	NO	Z/OS 2.4	SDSF	ISFCMD.ODSP.OMVS.sysname
	CFC	NO	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.COUPLE.sysname
	CFD	NO	NO	Z/OS 2.5	SDSF	ISFCMD.ODSP.COUPLED.sysname
	CFS	NO	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.CFSTRUCT.sysname
	CK	YES	NO	Z/OS 1.7	SDSF	ISFCMD.ODSP.HCHECKER.sysname
	CMDH	NO	NO	Z/OS 2.5		
	COLH	NO	NO	Z/OS 2.5		
	CS	YES	NO	Z/OS 2.5	SDSF	ISFCMD.ODSP.CS.sysname
	CSR	YES	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.CSR.sysname
	DA	YES	YES	BASE	SDSF	ISFCMD.DSP.ACTIVE.jesx
	DEV	YES	YES	Z/OS 2.3	SDSF	ISFCMD.ODSP.DEVACT.sysname
	DYNX	YES	NO	Z/OS 2.2	SDSF	ISFCMD.ODSP.DYNX.sysname
	EMCS	NO	NO	Z/OS 2.4	SDSF	ISFCMD.ODSP.EMCS.sysname
	ENC	YES	NO	BASE	SDSF	ISFCMD.ODSP.ENCLAVE.sysname
	ENQ	YES	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.ENQUEUE.sysname
	ENQC	YES	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.ENQUEUE.sysname
	ENQD	YES	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.ENQUEUE.sysname
	FS	YES	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.FILESYS.sysname
	GT	YES	NO	Z/OS 2.3	SDSF	ISFCMD.ODSP.TRACKER.sysname
	H	NO	NO	BASE	SDSF	ISFCMD.DSP.HELD.jesx
	HELP	NO	NO	Z/OS 2.5		
	I	NO	NO	BASE	SDSF	ISFCMD.DSP.INPUT.jesx
	INIT	NO	NO	BASE	SDSF	ISFCMD.ODSP.INITIATOR.jesx
	JC	NO	NO	BASE	SDSF	ISFCMD.ODSP.JOBCLASS.jesx
	*SDSF					

At the bottom of the terminal window, there is a status bar with the text "0.1 08/17/21.229 04:39PM RS88" and a cursor position indicator "a 4,21".

Class and resource
protecting command
shown

Note that basic user
interface commands
are not protected

Action Character Attributes - ACTH

The screenshot shows the SDSF application interface. The title bar reads "SDSF ACTION HELP RS88". The menu bar includes "File Edit Font Transfer Macro Options Window Help". The toolbar has icons for Display, Filter, View, Print, and Options. The main window displays a table of action character attributes:

NP	COMMAND	AuthLevel	Class	Resource
DX	READ	OPERCMD	jesx.DISPLAY.JOB	
E	ALTER	OPERCMD	jesx.RESTART.DEV.sysname	
E	ALTER	OPERCMD	jesx.RESTART.enttype	
EC	ALTER	OPERCMD	jesx.RESTART.enttype	
ES	ALTER	OPERCMD	jesx.RESTART.enttype	
ESH	ALTER	OPERCMD	jesx.RESTART.enttype	
H	ALTER	OPERCMD	jesx.MODIFYHOLD.enttype	
H	ALTER	OPERCMD	jesx.MODIFY.JOB	
K	ALTER	OPERCMD	MVS.CANCEL.Kjtype.Kjname	
KD	ALTER	OPERCMD	MVS.CANCEL.Kjtype.Kjname	
L	READ	OPERCMD	jesx.DISPLAY.U	
L	READ	OPERCMD	jesx.DISPLAY.enttypeOUT	
LB	READ	OPERCMD	jesx.DISPLAY.U	
LH	READ	OPERCMD	jesx.DISPLAY.U	
LL	READ	OPERCMD	jesx.DISPLAY.enttypeOUT	
LT	READ	OPERCMD	jesx.DISPLAY.U	
P	ALTER	OPERCMD	jesx.CANCEL.enttype	
P	ALTER	OPERCMD	jesx.MODIFY.JOB	
PP	ALTER	OPERCMD	jesx.CANCEL.enttype	
R	ALTER	OPERCMD	MVS.RESET	
RQ	ALTER	OPERCMD	MVS.RESET	
W	ALTER	OPERCMD	jesx.MODIFY.JOB	
W	ALTER	OPERCMD	jesx.MODIFY.enttype	
Y	UPDATE	OPERCMD	MVS.STOP.JOB.Kjname	
Z	ALTER	OPERCMD	MVS.FORCE.Kjtype.Kjname	

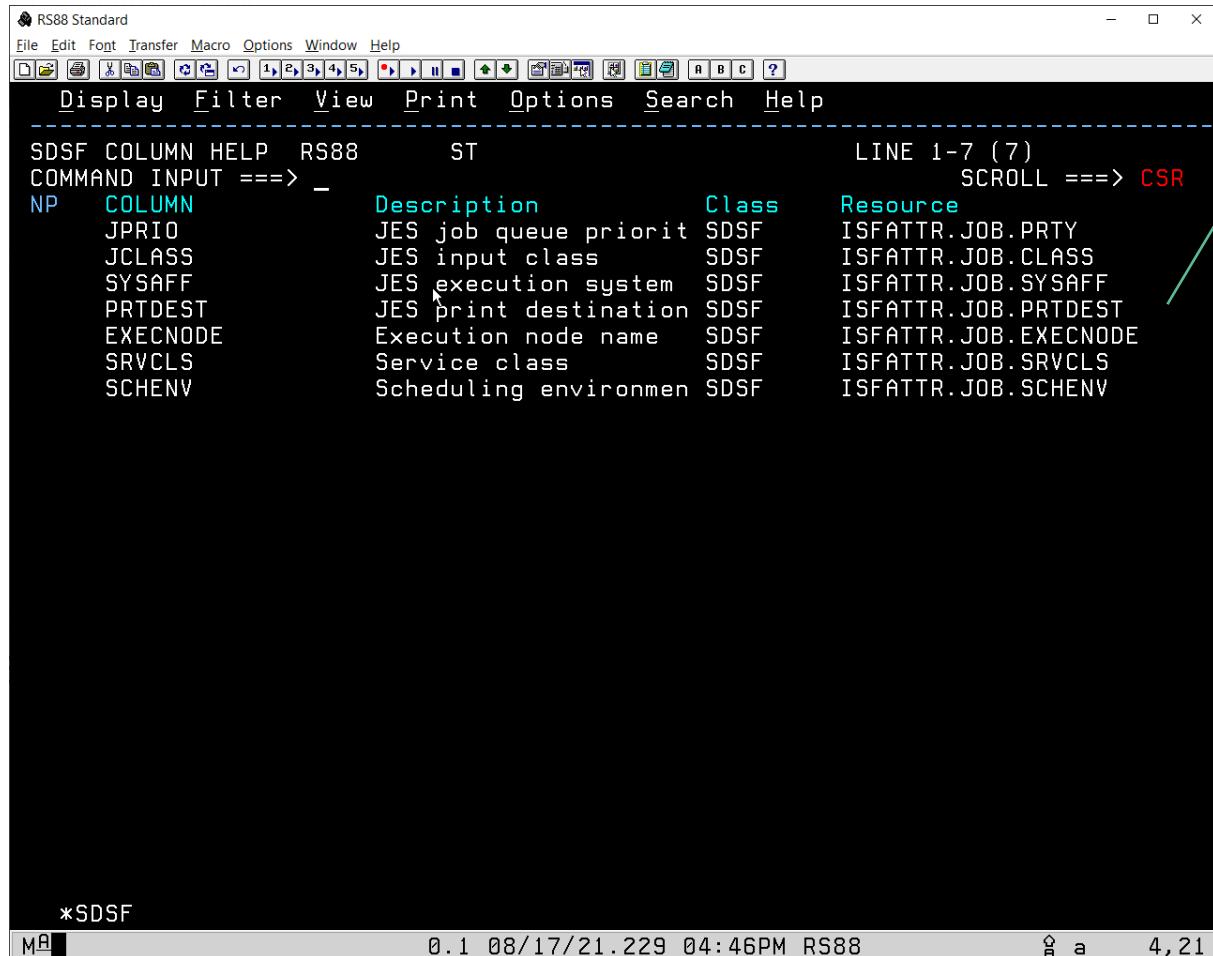
*SDSF

MA 0.1 08/17/21.229 04:42PM RS88 4,21

Authority level shown

Lowercase values in
resource name indicate
variable replacement

Overtype Columns - COLH



The screenshot shows the RS88 Standard terminal window with the following command entered:

```
SDSF COLUMN HELP RS88      ST
```

The output displays internal column names and their corresponding resource names and classes:

NP	COLUMN	Description	Class	Resource
JPRIO	JES job queue priorit	SDSF	ISFATTR.JOB.PRTY	
JCLASS	JES input class	SDSF	ISFATTR.JOB.CLASS	
SYSAFF	JES execution system	SDSF	ISFATTR.JOB.SYSAFF	
PRTDEST	JES print destination	SDSF	ISFATTR.JOB.PRTDEST	
EXECNODE	Execution node name	SDSF	ISFATTR.JOB.EXECNODE	
SRVCLS	Service class	SDSF	ISFATTR.JOB.SRVCLS	
SCHENV	Scheduling environmen	SDSF	ISFATTR.JOB.SCHENV	

The terminal window also shows the prompt *SDSF at the bottom left and the status bar at the bottom right indicating the date, time, and session number.

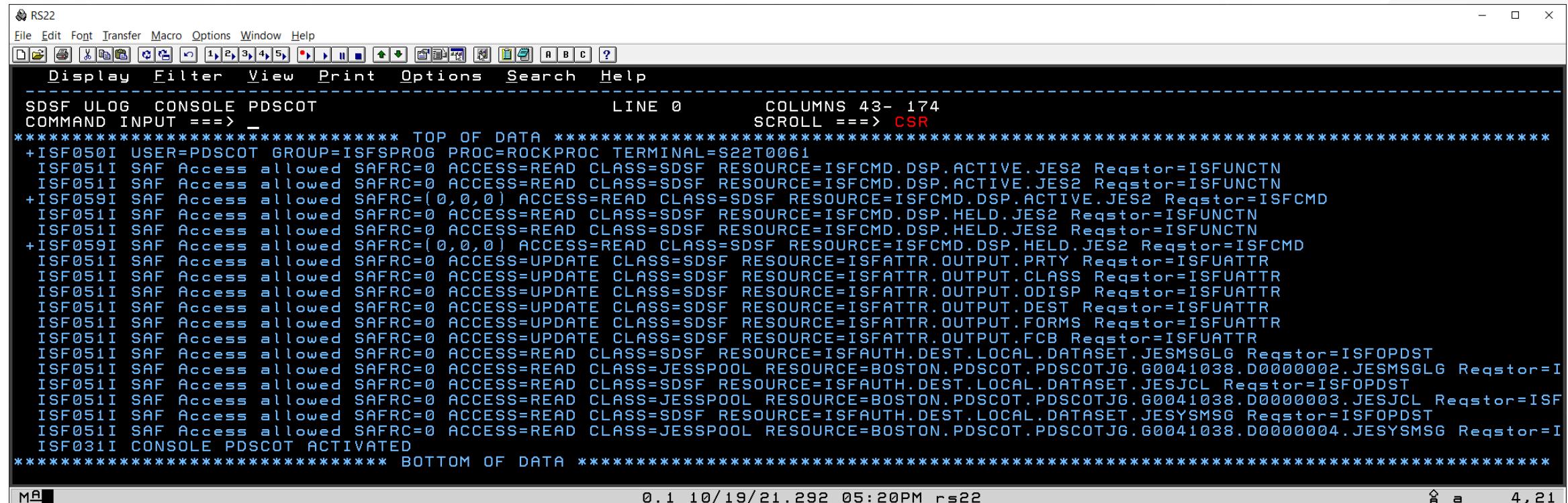
Overtype columns show resource name and class.

Note that internal column name used and not the title.

Security Trace

- Independent of normal SDSF trace
- Can be used to see all SAF checks issued by SDSF
- Trace output sent to **ULOG** by default
- Issued via **SET SECTRACE ON | OFF | WTP**
 - WTP Issue “write to programmer” style WTOs instead of ULOG
- Special DDNames
 - Useful for tracing initialization
 - ISFSECTR Enables SECTRACE ON
 - ISFSECTW Enables SECTRACE WTP

Security Trace Output



The screenshot shows a terminal window titled "RS22" with a menu bar including File, Edit, Font, Transfer, Macro, Options, Window, and Help. Below the menu is a toolbar with various icons. The main area displays a security trace log. The log header includes "SDSF ULOG CONSOLE PDSCOT", "COMMAND INPUT ==> _", "LINE 0", "COLUMNS 43- 174", and "SCROLL ==> CSR". The log itself consists of numerous entries starting with "ISF050I" or "ISF051I", detailing access events for SAF resources like ISFCMD, DSP, and JES2 across various classes such as SDSF, ISFATTR, and ODISP. The log concludes with "ISF031I CONSOLE PDSCOT ACTIVATED". The bottom of the window shows the timestamp "0.1 10/19/21.292 05:20PM rs22" and a status bar indicating "MA" and "4,21".

```
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF ULOG CONSOLE PDSCOT COMMAND INPUT ==> _
LINE 0 COLUMNS 43- 174
SCROLL ==> CSR
***** TOP OF DATA *****
+ISF050I USER=PDSCOT GROUP=ISFSPROG PROC=ROCKPROC TERMINAL=S22T0061
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.DSP.ACTIVE.JES2 Reqstor=ISFUNCTN
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.DSP.ACTIVE.JES2 Reqstor=ISFUNCTN
+ISF059I SAF Access allowed SAFRC=(0,0,0) ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.DSP.ACTIVE.JES2 Reqstor=ISFCMD
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.DSP.HELD.JES2 Reqstor=ISFUNCTN
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.DSP.HELD.JES2 Reqstor=ISFUNCTN
+ISF059I SAF Access allowed SAFRC=(0,0,0) ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.DSP.HELD.JES2 Reqstor=ISFCMD
ISF051I SAF Access allowed SAFRC=0 ACCESS=UPDATE CLASS=SDSF RESOURCE=ISFATTR.OUTPUT.PRTY Reqstor=ISFUATTR
ISF051I SAF Access allowed SAFRC=0 ACCESS=UPDATE CLASS=SDSF RESOURCE=ISFATTR.OUTPUT.CLASS Reqstor=ISFUATTR
ISF051I SAF Access allowed SAFRC=0 ACCESS=UPDATE CLASS=SDSF RESOURCE=ISFATTR.OUTPUT.ODISP Reqstor=ISFUATTR
ISF051I SAF Access allowed SAFRC=0 ACCESS=UPDATE CLASS=SDSF RESOURCE=ISFATTR.OUTPUT.DEST Reqstor=ISFUATTR
ISF051I SAF Access allowed SAFRC=0 ACCESS=UPDATE CLASS=SDSF RESOURCE=ISFATTR.OUTPUT.FORMS Reqstor=ISFUATTR
ISF051I SAF Access allowed SAFRC=0 ACCESS=UPDATE CLASS=SDSF RESOURCE=ISFATTR.OUTPUT.FCB Reqstor=ISFUATTR
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFAUTH.DEST.LOCAL.DATASET.JESMSGLG Reqstor=ISFOPDST
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=JESSPOOL RESOURCE=BOSTON.PDSCOT.PDSCOTJG.G0041038.D0000002.JESMSGLG Reqstor=I
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFAUTH.DEST.LOCAL.DATASET.JESJCL Reqstor=ISFOPDST
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=JESSPOOL RESOURCE=BOSTON.PDSCOT.PDSCOTJG.G0041038.D0000003.JESJCL Reqstor=ISF
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFAUTH.DEST.LOCAL.DATASET.JESYSMSG Reqstor=ISFOPDST
ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=JESSPOOL RESOURCE=BOSTON.PDSCOT.PDSCOTJG.G0041038.D0000004.JESYSMSG Reqstor=I
ISF031I CONSOLE PDSCOT ACTIVATED
***** BOTTOM OF DATA *****
```

SDSF Healthcheck

- SDSF_CLASS_SDSF_ACTIVE
- Verifies if **SDSF** class is active
- Produces report on **SDSF** resources and how the security decision is derived
 - SAFRC
 - Covering profile found and SAF return code will be used
 - FAILRC4
 - No covering profile found and access will be denied due to **AUXSAF(FAILRC4)** in ISFPRMxx
 - NOFAILRC4
 - No covering profile found and access will be allowed due to **AUXSAF(NOFAILRC4)** in ISFPRMxx
 - Always wise to verify all entries that do NOT have SAFRC to ensure that you do not have exposures due to missing or incorrect profiles

SDSF Healthcheck Output

The image displays two windows of the RS88 Standard SDSF interface. Both windows have a menu bar with File, Edit, Font, Transfer, Macro, Options, Window, and Help. The left window shows the initial SDSF output, while the right window shows a detailed list of resource definitions.

Left Window (Initial SDSF Output):

```

SDSF OUTPUT DISPLAY SDSF_CLASS_SDSF_ACTIVE      LINE 0      COLUMNS
COMMAND INPUT ==> -
*****
***** TOP OF DATA *****
CHECK(IBMSDFS,SDSF_CLASS_SDSF_ACTIVE)
SYSPLEX: RSPLEX0G SYSTEM: RS88
START TIME: 08/16/2021 07:04:42.723424
CHECK DATE: 20080324 CHECK SEVERITY: LOW

ISFH1015I The class SDSF is active.

SDSF class resource definition report column and value description.
 0 Status(S) column with value ** means resource not defined in SAF.
    Please define resource in SAF.
 0 Decision column describes whether SAF RC to use or FAILRC4 setting
    from ISFPRMxx member.
    o Value SAFRC means SAF will determine authorization.
    o Value FAILRC4 means SAF no decision and FAILRC4 was set in
      ISFPRMxx member.
    o Value NOFAILRC4 means SAF no decision and NOFAILRC4 was set in
      ISFPRMxx member.
 0 Access column tell level of authority requested.
 0 Resource column contains resource being checked.

      SDSF Class Resource Definition Report

S  Decision   Access   Resource
-- -----
SAFRC   Read     GROUP.ISFSPROG.HSF
SAFRC   Read     ISF.CONNECT.RS88
*SDSF

```

Right Window (Resource Definition List):

```

SDSF OUTPUT DISPLAY SDSF_CLASS_SDSF_ACTIVE      LINE 23      COLUMNS 02- 81
COMMAND INPUT ==> -
S  Decision   Access   Resource
-- -----
SAFRC   Read     GROUP.ISFSPROG.HSF
SAFRC   Read     ISF.CONNECT.RS88
SAFRC   Update   ISFATTR.CHECK.CATEGORY
SAFRC   Update   ISFATTR.CHECK.DEBUG
SAFRC   Update   ISFATTR.CHECK.EINTERVAL
SAFRC   Update   ISFATTR.CHECK.INTERVAL
SAFRC   Update   ISFATTR.CHECK.PARM
SAFRC   Update   ISFATTR.CHECK.REXXHLQ
SAFRC   Update   ISFATTR.CHECK.SEVERITY
SAFRC   Update   ISFATTR.CHECK.USERDATE
SAFRC   Update   ISFATTR.CHECK.VERBOSE
SAFRC   Update   ISFATTR.CHECK.WTOTYPE
SAFRC   Update   ISFATTR.CKPT.OPVERIFY
SAFRC   Update   ISFATTR.EMCS.AUTH
SAFRC   Update   ISFATTR.EMCS.INTIDS
SAFRC   Update   ISFATTR.EMCS.MSCOPE
SAFRC   Update   ISFATTR.EMCS.ROUTCDE
SAFRC   Update   ISFATTR.EMCS.UNKNIDS
SAFRC   Update   ISFATTR.ENCLAVE.SRVCLASS
SAFRC   Update   ISFATTR.INIT.ALLOC
SAFRC   Update   ISFATTR.INIT.BARRIER
SAFRC   Update   ISFATTR.INIT.DEFCNT
SAFRC   Update   ISFATTR.INIT.GROUP
SAFRC   Update   ISFATTR.INIT.MODE
SAFRC   Update   ISFATTR.INIT.UNALLOC
*SDSF

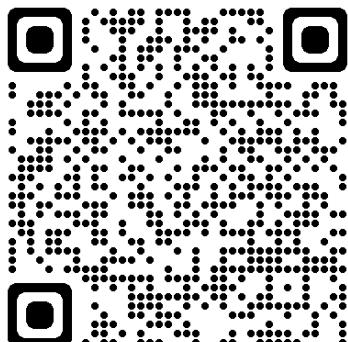
```

GSE UK Conference 2023 Charities



- The GSE UK Region team hope that you find this presentation and others that follow useful and help to expand your knowledge of z Systems.
- Please consider showing your appreciation by kindly donating a small sum to our charities this year, Blood Bikes and LimbPower.

<https://www.justgiving.com/crowdfunding/mark-wilson-343>

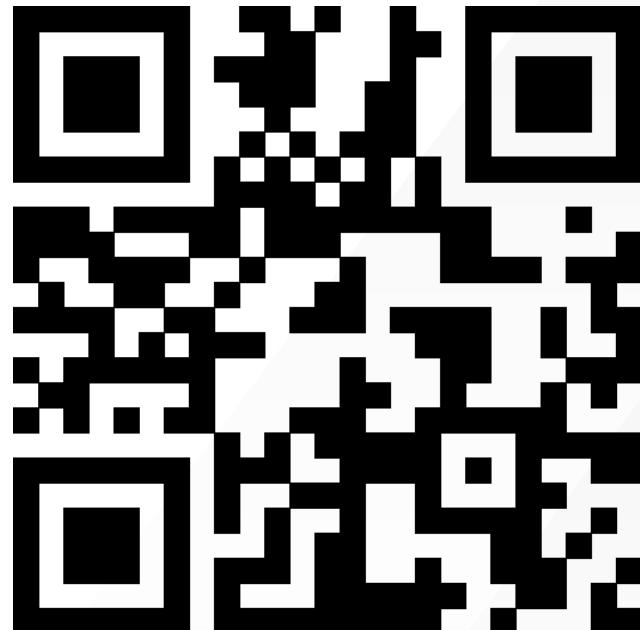


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