

New SDSF Functions in z/OS 3.1 - Preview

Session 52515
March 7, 2023
Rob Scott
Rocket Software



New SDSF Functions in z/OS 3.1 - Preview

Rob Scott
Rocket Software
rscott@rs.com

Agenda

- Architectural Changes
- SDSF Event Log
- Module Fetch Monitor
- RACF Panels
- MEM Enhancements
- Useability Enhancements

Architectural Changes

Architectural Changes

- New SDSF concept of a “feature”
 - Optional component of SDSF that can be configured via new FEATURE and FEATENT statements in ISFPRMxx
 - Certain SDSF panels can depend on a specific feature being active
 - FEATURE statement
 - Initial status of the feature when SDSF server starts
 - Resource limits for any data collection
 - Level of detail maintained
 - FEATENT statements
 - One or more optional filters for the data collected
 - Features can be dynamically started and stopped using operator commands
 - SDSF for z/OS ships with two features available
 - Module Fetch Monitor
 - Event Log

SDSF Event Log

Event Log Implementation

- Enabled by new FEATURE statement in ISFPRMxx
 - Is active by default
- Captures important recent system events (default 10,000) and presents the SDSF user with a summary row for each event
- The “L” action against the row takes the user to the nearest OPERLOG record to the event timestamp
 - Can save numerous “FIND xxx PREV” activities in the LOG panel
- Data sources include :
 - ENF signals
 - SMF records
 - Dynamic exits
- SDSF assigned category and event names can be used to filter data collected on FEATENT statements in ISFPRMxx

Event Log Captured Data Examples

- System status changes
 - I/O configuration
 - WLM policy
 - Boost activity
 - SET operator commands
 - RSM detected shortages and any subsequent relief
- Dynamic updates to system resources
 - APF list
 - Link list
 - LPA
- Abnormal end to jobs
- SVC dump creation

Event Log Panel (ELOG)

```

RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF EVENT LOG RS22 RS22 ACTIVE LINE 3248-3303 (10000)
COMMAND INPUT ==> SCROLL ==> CSR
PREFIX=* DEST=( ALL ) OWNER=PDSCOT SYSNAME=RS22
NP NAME SysName Date Description
SYSTEM_DUMP RS22 2022/11/10 07:53:59.71 System dump detected : ERROR IN INITIATOR,ABEND=878,COMPON=INIT,COMPID=SC1B6,ISSUER=IEFIB620
JOB_ABEND RS22 2022/11/10 07:53:58.33 Jobname ARYG651(J0732449) OWNER=TS6509 ended abended CC=S922
SMF_SYNC RS22 2022/11/10 07:45:00.40 SMF SYNC interval ended
JOB_ABEND RS22 2022/11/10 07:42:08.10 Jobname PDILYA(T0733595) OWNER=PDILYA ended abended CC=S622
SMF_SYNC RS22 2022/11/10 07:30:00.60 SMF SYNC interval ended
JOB_ABEND RS22 2022/11/10 07:25:13.62 Jobname TS62051(T0733807) OWNER=TS6025 ended abended CC=S222
JOB_ABEND RS22 2022/11/10 07:18:04.89 Jobname TSTB235(J0733545) OWNER=TS4890 ended abended CC=S0C4
JOB_ABEND RS22 2022/11/10 07:15:32.93 Jobname TSTB235(J0732990) OWNER=TS4890 ended abended CC=S0C1
SMF_SYNC RS22 2022/11/10 07:15:00.44 SMF SYNC interval ended
SWITCH_SMF RS22 2022/11/10 07:14:40.56 SWITCH SMF command issued
JOB_ABEND RS22 2022/11/10 07:06:00.66 Jobname TS4883(T0732676) OWNER=TS4883 ended abended CC=S622
JOB_ABEND RS22 2022/11/10 07:05:48.52 Jobname ARYJ32A2(J0732691) OWNER=TS4883 ended abended CC=S222
JOB_ABEND RS22 2022/11/10 07:02:21.87 Jobname TS46189(S0732927) OWNER=TS4618 ended abended CC=SEC6
SMF_SYNC RS22 2022/11/10 07:00:00.39 SMF SYNC interval ended
JOB_ABEND RS22 2022/11/10 06:45:19.01 Jobname TSTB235(J0732117) OWNER=TS4890 ended abended CC=S0C1
JOB_ABEND RS22 2022/11/10 06:45:13.61 Jobname CSMVDQ0(T0732661) OWNER=CSMVDQ0 ended abended CC=S0C1
SMF_SYNC RS22 2022/11/10 06:45:00.75 SMF SYNC interval ended
JOB_ABEND RS22 2022/11/10 06:35:13.61 Jobname TS3482(T0731793) OWNER=TS3482 ended abended CC=S0C1
SMF_SYNC RS22 2022/11/10 06:30:00.40 SMF SYNC interval ended
JOB_ABEND RS22 2022/11/10 06:25:13.62 Jobname TS4618(T0731739) OWNER=TS4618 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 06:25:13.62 Jobname TS4618(T0732110) OWNER=TS4618 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 06:25:13.30 Jobname TS5835(T0727810) OWNER=TS5835 ended abended CC=S522
DYNAMIC_APF_ADD RS22 2022/11/10 06:24:47.38 Data set ARY.TS4883.ARYTEST.SARYLOAD (SMS) added using CSVAPF by jobname ARYJ32A2
SMF_SYNC RS22 2022/11/10 06:15:00.09 SMF SYNC interval ended
JOB_ABEND RS22 2022/11/10 06:05:13.61 Jobname TS3654(T0731910) OWNER=TS3654 ended abended CC=S222
JOB_ABEND RS22 2022/11/10 06:03:12.12 Jobname TS3357(T0727515) OWNER=TS3357 ended abended CC=S522
SMF_SYNC RS22 2022/11/10 06:00:00.74 SMF SYNC interval ended
SWITCH_SMF RS22 2022/11/10 05:59:57.58 SWITCH SMF command issued
JOB_ABEND RS22 2022/11/10 05:52:15.35 Jobname TS60645(S0731701) OWNER=TS6064 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 05:51:58.81 Jobname TSTB235(J0731712) OWNER=TS4890 ended abended CC=S0C1
JOB_ABEND RS22 2022/11/10 05:50:58.87 Jobname TS60644(S0731705) OWNER=TS6064 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 05:50:23.60 Jobname TS60641(S0731702) OWNER=TS6064 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 05:45:13.61 Jobname TS3654(T0731264) OWNER=TS3654 ended abended CC=S222
SMF_SYNC RS22 2022/11/10 05:45:00.08 SMF SYNC interval ended
DYNAMIC_APF_ADD RS22 2022/11/10 05:34:35.08 Data set ADB.GDI.RB1056.LINKLIB (SMS) added using CSVAPF by jobname RB1BIND
DYNAMIC_APF_ADD RS22 2022/11/10 05:34:35.07 Data set ADB.GDI.RB1056.ISPLLIB (SMS) added using CSVAPF by jobname RB1BIND
JOB_ABEND RS22 2022/11/10 05:30:51.75 Jobname TSTB235(J0731633) OWNER=TS4890 ended abended CC=S0C1
SMF_SYNC RS22 2022/11/10 05:30:00.00 SMF SYNC interval ended
JOB_ABEND RS22 2022/11/10 05:26:11.37 Jobname TS3556(T0730820) OWNER=TS3556 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 05:25:13.61 Jobname TS3556(T0730740) OWNER=TS3556 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 05:25:02.10 Jobname TSTB235(J0731575) OWNER=TS3556 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 05:23:52.77 Jobname TS5034(T0726454) OWNER=TS3556 ended abended CC=SEC6
JOB_ABEND RS22 2022/11/10 05:18:51.91 Jobname TSTB235(J0730953) OWNER=TS3556 ended abended CC=SEC6
SMF_SYNC RS22 2022/11/10 05:15:00.00 SMF SYNC interval ended
DEVICE_ONLINE RS22 2022/11/10 05:08:03.33 Device number C3C4 ( ARYSXA ) placed online
DEVICE_ONLINE RS22 2022/11/10 05:08:03.30 Device number C3CB ( ARYSXC ) placed online
DEVICE_ONLINE RS22 2022/11/10 05:08:03.30 Device number C3C5 ( ARYSXB ) placed online
VOLUME_AVAILABLE RS22 2022/11/10 05:08:03.29 Device number C3C4 ( ARYSXA ) made available
VOLUME_AVAILABLE RS22 2022/11/10 05:08:03.29 Device number C3C6 ( ARYSXC ) made available
VOLUME_AVAILABLE RS22 2022/11/10 05:08:03.29 Device number C3C5 ( ARYSXB ) made available
DEVICE_ONLINE RS22 2022/11/10 05:08:02.24 Device number C1B6 ( ARY27C ) placed online
DEVICE_ONLINE RS22 2022/11/10 05:08:02.19 Device number C1B5 ( ARY321 ) placed online
VOLUME_AVAILABLE RS22 2022/11/10 05:08:02.18 Device number C1B6 ( ARY27C ) made available
VOLUME_AVAILABLE RS22 2022/11/10 05:08:02.18 Device number C1B5 ( ARY321 ) made available
DEVICE_ONLINE RS22 2022/11/10 05:08:02.18 Device number C1B4 ( ARY27D ) placed online
VOLUME_AVAILABLE RS22 2022/11/10 05:08:02.18 Device number C1B4 ( ARY27D ) made available

```

0.1 11/14/22.318 11:22AM rs22

a 4,21

Module Fetch Monitor

Module Fetch Monitor Implementation

- Enabled by new FEATURE statement in ISFPRMxx
 - Is inactive by default as non-trivial overhead
- Captures program fetch data from CSVFETCH and CSVLLIX1 dynamic exits
- Support 3 levels of data collection detail on FEATURE statement
 - LEVEL(1) Only collect module fetch data for data set names
 - LEVEL(2) Collect module fetch data for both data set and module name
 - LEVEL(3) Collect module fetch data for data set name, module name and job names
- FEATENT statements can filter on data set name, module name and fetch-causing jobname

Module Fetch By Data Set Name

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF FETCH DATA SETS RS88 RS88 ACTIVE

COMMAND INPUT ==>

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

NP	DSNAME	Fetch	AvgDASD	MaxDASD	AvgVLF	MaxVLF
	DEVRTE.HSF.HSFA0301.SISFLOAD	24	25.385	316.175	0.000	0.000
	ISP.SISPLLOAD	13	0.135	0.679	0.007	0.014
	PDSCOT.LINKLIB	2	0.760	0.978	0.000	0.000
	REXX.SEAGALT	4	0.061	0.071	0.015	0.016
	RSRTE.LINKLIB	4	0.944	1.118	0.009	0.009
	SYS1.CMDLIB	125	1.018	16.642	0.023	0.075
	SYS1.CSSLIB	2	3.381	6.334	0.000	0.000
	SYS1.LINKLIB	304	0.112	1.043	0.047	0.610
	SYS1.SGRBLINK	137	13.847	494.057	3.300	104.418

Columns also include first and last fetch datestamps.

MA 0 . 1 11/14/22.318 11:54AM RS88 4 , 21

Module Fetch By Module Name

xxxDASD indicates program fetch
versus xxxVLF for LLA fetch.

NP	MODULE	Fetch	Type	Size	AvgDASD	MaxDASD	AvgVLF	MaxVLF	Dataset	APF	AC	AM	RM
	ALLOC	36	PGMF	0000D8E8	0.060	0.091	0.000	0.000	SYS1.CMDLIB	YES	0	31	31
	ALLOCATE	6	PGMF	0000D8E8	0.081	0.111	0.000	0.000	SYS1.CMDLIB	YES	0	31	31
	ALTLIB	8	PGMF	00004310	0.139	0.621	0.000	0.000	SYS1.CMDLIB	YES	0	31	31
	ATTR	12	PGMF	00003360	0.371	0.623	0.000	0.000	SYS1.CMDLIB	YES	0	24	24
	BPXWREXX	6	LLAF	00023800	0.121	0.141	0.087	0.101	SYS1.LINKLIB	YES	0	31	24
	EAGRALT	3	LLAF	00005F80	0.000	0.000	0.015	0.016	REXX.SEAGALT	YES	0	31	24
	EAGRTPRC	3	PGMF	00005F80	0.063	0.071	0.000	0.000	REXX.SEAGALT	YES	0	31	31
	EXEC	9	PGMF	000007D8	0.901	2.867	0.000	0.000	SYS1.CMDLIB	YES	0	31	31
	EXECUTIL	3	PGMF	00001698	0.063	0.075	0.000	0.000	SYS1.CMDLIB	YES	0	31	31
	EZAFTPKR	6	LLAF	00000A4C0	0.057	0.065	0.024	0.026	SYS1.LINKLIB	YES	0	31	24
	FLMTABLE	1	PGMF	000000CC0	0.679	0.679	0.000	0.000	ISP.SISLOAD	YES	0	24	24
	FREE	6	PGMF	00003E48	0.481	0.880	0.000	0.000	SYS1.CMDLIB	YES	0	31	31
	GRBMFDCX	1	PGMF	000000C70	494.057	494.057	0.000	0.000	SYS1.SGRBLINK	YES	0	31	31
	GRB3GCFI	18	LLAF	0002EC90	11.736	104.461	11.691	104.418	SYS1.SGRBLINK	YES	0	31	24
	GRB3GCPD	18	LLAF	000016B0	0.051	0.059	0.006	0.007	SYS1.SGRBLINK	YES	0	31	24
	GRB3GCRY	18	LLAF	00007E80	0.063	0.077	0.020	0.028	SYS1.SGRBLINK	YES	0	31	24
	GRB3GCSR	9	PGMF	00000678	21.464	105.157	0.000	0.000	SYS1.SGRBLINK	YES	0	31	31
	GRB3GGSS	18	LLAF	00000ADE8	12.173	104.439	11.653	104.360	SYS1.SGRBLINK	YES	0	31	24
	GRB3GIQD	18	LLAF	0000096C0	11.635	104.186	0.025	0.028	SYS1.SGRBLINK	YES	0	31	24
	GRB3GPCI	18	LLAF	0000113E0	0.358	1.578	0.045	0.063	SYS1.SGRBLINK	YES	0	31	24
	GRB3GVRI	18	LLAF	00000A8A0	0.138	0.490	0.027	0.031	SYS1.SGRBLINK	YES	0	31	24

Module Fetch By Job Name

The screenshot shows the RS88 SDSF interface with the following details:

- File Edit Font Transfer Macro Options Window Help**
- Display Filter View Print Options Search Help**
- SDSF FETCH JOBNAMES RS88 RS88 ACTIVE LINE 265-285 (285)**
- COMMAND INPUT ==> SCROLL ==> CSR**
- PREFIX=*= DEST=(ALL) OWNER=*= SYSNAME=**
- NP JOBNAME Module Fetch AvgDASD MaxDASD AvgVLF MaxVLF ASIDX Dataset**

NP	JOBNAME	Module	Fetch	AvgDASD	MaxDASD	AvgVLF	MaxVLF	ASIDX	Dataset	DASD	Last
PDSCOT	ISPLINK		3	0.000	0.000	0.007	0.015	009C	ISP.SISPLLOAD	0	2022
PDSCOT	ISPPXMXN		2	0.823	0.823	0.009	0.009	009C	RSRTE.LINKLIB	1	2022
PDSCOT	ISPQRY		3	0.044	0.057	0.000	0.000	009C	ISP.SISPLLOAD	3	2022
PDSCOT	LISTALC		6	0.047	0.051	0.000	0.000	009C	SYS1.CMDLIB	6	2022
PDSCOT	LISTC		1	0.034	0.034	0.000	0.000	009C	SYS1.CMDLIB	1	2022
PDSCOT	LU		8	0.200	0.225	0.000	0.000	009C	SYS1.LINKLIB	8	2022
PDSCOT	TSOLIB		1	0.048	0.048	0.000	0.000	009C	SYS1.CMDLIB	1	2022
RMF	GRBMFDCX		1	494.057	494.057	0.000	0.000	0073	SYS1.SGRBLINK	1	2022
RMFGAT	GRB3GCFI		20	10.577	104.461	10.531	104.418	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GCPD		20	0.050	0.059	0.006	0.007	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GCRY		20	0.062	0.077	0.020	0.028	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GCSR		10	19.525	105.157	0.000	0.000	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GGSS		20	11.146	104.439	10.494	104.360	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GIQD		20	10.478	104.186	0.025	0.028	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GPCI		20	0.331	1.578	0.045	0.063	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GVRI		20	0.131	0.490	0.028	0.031	0094	SYS1.SGRBLINK	10	2022
RMFGAT	GRB3GXCF		20	0.125	0.543	0.037	0.043	0094	SYS1.SGRBLINK	10	2022
STARTING	IRRSPW00		1	0.429	0.429	0.000	0.000	0095	SYS1.CSSLIB	1	2022
STARTING	IRRSPW00		1	6.334	6.334	0.000	0.000	0095	SYS1.CSSLIB	1	2022
STARTING	IRRSPW00		1	0.431	0.431	0.000	0.000	0095	SYS1.CSSLIB	1	2022
STARTING	IRRSPW00		1	0.406	0.406	0.000	0.000	009C	SYS1.CSSLIB	1	2022

FJ action on DA can show this panel
filtered by the job name.

FJ action on DA can show this panel
filtered by the job name.

RACF Panels

RACF Panels

- Several RACF-related panels added
 - RACF classes
 - RACF profiles
 - Access lists for specific profile
 - Connected groups list for specific userid
 - Profile “browse”
 - RACF options (SETROPTS)
- Uses IRRSEQ00 (Radmin) to collect data
 - For performance reasons, SDSF will not check the IRR.RADMIN.* profiles in the FACILITY class
 - Ability to see RACF data based purely on READ access to ISFCMD.ODSP.RACLIST.sysname in the SDSF class

RACF Classes (RAC)

RS88

File Edit Font Transfer Macro Options Window Help

Display Filter View Print O

SDSF RACF CLASSES RS88 ACTIVE LINE 1-21 (65) SCROLL ==> CSR

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

NP	NAME	Xref	Active	Dynamic	MaxLen	DfltrC	Raclist	Group	UACC	Oper	Genlist	Signal	Seclabel	IBM	Posit	KeyQual	MAC
	ACCTNUM		YES	NO	39	4	ALLOWED	NO	NONE	NO	NO	NO	NO	YES	126	0	NORMAL
	ACICSPCT	BCICSPCT	YES	NO	13	4	NO	NO	NONE	NO	NO	NO	NO	YES	5	0	NORMAL
	APPL		YES	NO	8	4	YES	NO	NONE	NO	YES	NO	YES	YES	3	0	EQUAL
					13	4	NO	YES	NONE	NO	NO	NO	NO	YES	5	0	NORMAL
					41	8	YES	NO	ACEE	NO	NO	NO	NO	YES	545	0	NORMAL
					21	4	NO	NO	NONE	NO	NO	NO	NO	YES	5	0	NORMAL
					8	4	ALLOWED	NO	NONE	NO	NO	YES	NO	YES	572	0	NORMAL
					26	4	NO	NO	NONE	NO	NO	NO	NO	YES	588	0	NORMAL
					8	8	YES	NO	NONE	NO	NO	NO	NO	YES	107	0	REVERSE
	CSFKEYS	GCSFKEYS	YES	NO	246	4	YES	NO	NONE	NO	NO	YES	NO	YES	98	0	NORMAL
	CSFSERV		YES	NO	246	4	YES	NO	NONE	NO	NO	YES	NO	YES	98	0	NORMAL
	DATASET		YES	NO	44	0	NO	NO	NONE	YES	NO	NO	NO	YES	1024	0	NORMAL
	DCICSDCT	ECICSDCT	YES	NO	13	4	NO	NO	NONE	NO	NO	NO	NO	YES	5	0	NORMAL
	DIGTCERT		YES	NO	246	4	YES	NO	NONE	NO	NO	NO	NO	YES	550	0	NORMAL
	DIGTRING		YES	NO	246	4	YES	NO	NONE	NO	NO	NO	NO	YES	550	0	NORMAL
	DSNR		YES	NO	39	4	ALLOWED	NO	ACEE	NO	YES	NO	YES	YES	7	0	EQUAL
	ECICSDCT	DCICSDCT	YES	NO	13	4	NO	YES	NONE	NO	NO	NO	NO	YES	5	0	NORMAL
	EJBROLE	GEJBROLE	YES	NO	246	4	ALLOWED	NO	NONE	NO	NO	NO	NO	YES	568	0	NORMAL
	FACILITY		YES	NO	39	4	YES	NO	NONE	NO	YES	NO	NO	YES	8	0	NORMAL
	FCICSFCT	HCICSFCT	YES	NO	17	4	ALLOWED	NO	NONE	NO	NO	NO	NO	YES	5	0	NORMAL
	FIELD		YES	NO	26	4	YES	NO	NONE	NO	YES	NO	NO	YES	121	0	NORMAL

MB 0.2 11/14/22.318 12:55PM RS88

8 a 4,21

RACF Profiles (RACP)

The screenshot shows the RS88 terminal window with the following details:

- Title Bar:** RS88
- Menu Bar:** File, Edit, Font, Transfer, Macro, Options, Window, Help
- Toolbar:** Includes icons for Display, Filter, View, and various file operations.
- Text Area:** SDSF RACF PROFILES RS88 FACILITY
COMMAND INPUT ==> _
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=
NP Profile
**
AOPADMIN
BBG.SYNC.IZUDFLT
BLSACTV.ADDRSPAC
BPX.CONSOLE
BPX.DAEMON
BPX.DAEMON.HFSCTL
BPX.DEBUG
BPX.FILEATTR.APF
BPX.FILEATTR.PROGCTL
BPX.FILEATTR.SHARELIB
- Message Bar:** LINE 2-22 (94) SCROLL ==> CSR
- Bottom Status Bar:** 0.1 11/14/22.318 12:56PM RS88 4,21

Annotations:

- A callout bubble points to the command input field with the text: "Class name can be passed as keyword on command. Default is DATASET."
- A callout bubble points to the "Profile" entry in the list with the text: "Highlighted profile name means that there are entries in the access list."

RACF Profile Access List (RACA)

Display shown in response to
“L” action on RACP panel.

SCROLL ==> CSR

PREFIX=*	DEST=(ALL)	OWNER=*	SYSNAME=
NP	ID	Access	Cond WhenClass WhenEntity
	--UACC--	NONE	NO
	CBLDAP	UPDATE	NO
	CFZSRV	UPDATE	NO
	DBMUSS	READ	NO
	GPMSERVE	READ	NO
	IMWEBSRV	UPDATE	NO
	IPVSRV1	READ	NO
	KBMUSER	READ	NO
	PDMGK	READ	NO
	ROOT	READ	NO
	STCRSE	UPDATE	NO
	WEBSRV	UPDATE	NO

Special value of “—UACC—” in
access list for the profile universal
access.

MA 0.1 11/14/22.318 12:58PM RS88 4,21

RACF Connected Groups (RACC)

Display shown in response to "L" action on RACP panel for class USER.

PREFIX=*	DEST=(ALL)	OWNER=*	SYSNAME=	NP	GROUP	Special Operations	Auditor	Owner	Connected	Class	Profile	SysName	SysLevel
					#PSPRG	NO	NO	#PSPRG	2022/01/05	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					AOPADMIN	NO	NO	AOPADMIN	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					CPAC	NO	NO	CPAC	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					CSUSER	NO	NO	CSUSER	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					IMSGRP	NO	NO	IMSGRP	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					IMSSYSP	NO	NO	IMSSYSP	2018/02/15	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					IMS810	NO	NO	IMS810	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					IRLMV2	NO	NO	IRLMV2	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					PDUSER	NO	NO	PDUSER	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					RMMGROUP	NO	NO	RMMGROUP	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					SMPE	NO	NO	SMPE	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					STORADM	NO	NO	STORADM	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0
					SYSPROG	NO	NO	SYSPROG	2014/12/02	USER	TSSPD	RS88	z/OS 03.01.00 HBB77E0

File RACF General Dataset User Group

MXI--RL---RS88----HOME----CPU 12 UIC 65535 PAG 0-----2022/11/14-08:01:10--->- Row 000129 of 000180
M8 0.1 11/14/22.318 01:01PM RS88 4,21

RACF Profile Browse

RS88

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF RACF BROWSE CATALOG.*.MASTER*.* LINE 0 COLUMNS 02- 80
COMMAND INPUT ==> _ SCROLL ==> CSR

CLASS : DATASET
PROFILE : CATALOG.*.MASTER*.*
SEGMENT : BASE
CREATDAT: 05/28/15
OWNER : SYS1
LREFDAT : 05/28/15
LCHGDAT : 05/28/15
ACSALTR : 0
ACSCNTL : 0
ACSUPDT : 0
ACSREAD : 0
UACC : READ
GROUPDS : YES
RAUDIT : FAILURES(READ)
GROUPNM : SYSPROG
DSTYPE : NON-VSAM
LEVEL : 0
RGAUDIT : NONE
WARNING : NO
ERASE : NO
ACLCNT : (REPEAT GROUP)
 ACLID : SYSPROG
 ACLACS : ALTER
 ACLID : SMSVSAM
 ACLACS : UPDATE
 ACLID : SUBJCL

Display shown in response to "S" action on various RACF panels.

LHS column shows the RACF database template field name.

First field in repeat group highlighted.

MA 0.1 11/14/22.318 01:05PM RS88 4,21

RACF Options (RACO)

The image shows two side-by-side terminal windows, both titled "RS88".

Left Window (Line 0):

- File Edit Font Transfer Macro Options Window Help
- Display Filter View Print Options Search Help
- SDSF RACF OPTIONS RS88
- COMMAND INPUT ==> _
- ***** TOP OF DATA *****
- RACF GLOBAL OPTIONS AND SETTINGS**
- INITSTATS : YES
- TERMINAL UACC : READ
- LOG COMMAND VIOLATIONS : YES
- AUDIT OPERATIONS : NO
- AUDIT SPECIAL : YES
- AUDIT APPC TRANSACTIONS : NO
- AUDIT SECLABEL : NO
- PASSWORD MIXED CASE : NO
- ADD CREATOR TO ACCESS LIST : NO
- AUTOMATIC DATA SET PROTECTION : NO
- SECLABEL COMPATABILITY : NO
- ENHANCED GENERIC NAMING : YES
- GENERIC OWNER : YES
- LIST OF GROUPS CHECKING : YES
- MULTI-LEVEL QUIET : NO
- MULTI-LEVEL STABLE : NO
- MULTI-LEVEL NAME HIDING : NO
- SECLABEL BY SYSTEM : NO
- MULTI-LEVEL IPC : INACTIVE
- MULTI-LEVEL FILE SYSTEM : INACTIVE
- PROTECT ALL DATA SETS : NO
- REAL DATA SET NAMES : NO
- RETENTION PERIOD : 00000
- RVARY SWITCH PASSWORD : DEFAULT
- RVARY STATUS PASSWORD : DEFAULT

0.1 11/14/22.318 01:03PM RS88

Right Window (Line 42):

- File Edit Font Transfer Macro Options Window Help
- Display Filter View Print Options Search Help
- SDSF RACF OPTIONS RS88
- COMMAND INPUT ==> _
- LINE 42 COLUMNS 02- 80
- SCROLL ==> CSR
- PASSWORD HISTORY DEPTH : 003**
- PASSWORD INTERVAL DAYS : 180
- PASSWORD MINIMUM CHANGE DAYS : 000
- PASSWORD SPECIAL CHARS : NO
- PASSWORD ALGORITHM : LEGACY
- PASSWORD ATTEMPTS REVOKE : 010
- PASSWORD WARNING DAYS : 005
- PASSWORD SYNTAX RULES : NO
- JES NJE USERID : ????????
- JES UNDEFINED USERID : +++++++
- KERB LEVEL (IGNORED) : 000
- ACTIVE CLASSES**

DATASET	USER	GROUP	ACCTNUM	ACICSPCT	APPL	BCICSPCT	CBIND
CDT	CFIELD	CONSOLE	CSFKEYS	CSFSERV	DCICSDCT	DIGTCERT	GCICSTRN
DSNR	ECICSDCT	EJBROLE	FACILITY	FCICSFCT	FIELD	GCICSTRN	IDTDATA
GEJBROLE	GSDSF	GXCSFKEY	GXFACILI	GZMFAPLA	HCICSFCT	IDTDATA	PCICSPSB
JESSPOOL	KCICSJCT	LOGSTRM	MCICSPPT	NCICSPPT	OPRCMD	PCICSPSB	PTKTDATA
PTKTDATA	PTKTVAL	QCICSPSB	RCICSRRES	RRSFDATA	SCICSTST	SDSF	SERVAUTH
SERVER	STARTED	SURROGAT	TAPEVOL	TCICSTRN	TSOAUTH	TSOPROC	UCICSTST
UNIXPRIV	VCICSCMD	WBEM	WCICSRRES	WRITER	XCSFKEY	XFACILIT	ZMFAPLA

- STATISTICS**
- UNIXPRIV**
- GENERIC COMMAND CLASSES**

DATASET	ACCTNUM	ACICSPCT	AIMS	ALCSAUTH	APPCLU	APPCPRT	APPCSERV
APPCSI	APPCTP	APPL	CACHECLS	CBIND	CCICSCMD	CIMS	CONSOLE
CPSMOBJ	CPSMXMP	CSFKEYS	CSFSERV	DASDVOL	DBNFORM	DCEUUIDS	DCICSDCT
DEVICES	DIGTCERT	DIGTCRIT	DIGTNMAP	DIGTRING	DIRACC	DIRAUTH	DIRECTRY

0.1 11/14/22.318 01:04PM RS88 4,21

Similar data to that shown on
SETROPTS LIST.

MEM Enhancements

MEM Enhancements

- Structure format now uses SDSF table display instead of browse
 - “D” and “G” actions supported on the MEM MAP panel
 - No longer need “MEMCSR” assigned to PF-Key
- Structure definitions externalized to new ISFPRMxx statements
 - MAP
 - MAPENT
 - MAPOPT
 - MAPDEF
- New “RC” action added to MEM display to perform a “run chain” to process linked lists

MEM MAP Table Format

Structure format now shown in SDSF table.

PREFIX=*	DEST=(ALL)	OWNER=*	SYSNAME=	Off	Key	FProt
NP	NAME		Content	0000	0	NO
SSCTSID			SSCT	0004	0	NO
SSCTSCTA			00C37828	0008	0	NO
SSCTSNAME			JES2	000C	0	NO
SSCTFLG1		A0	B'10100000'			
+EQUATED VALUES		--	-----			
+SSCTSFOR		80	B'10000000'			
+SSCTUPSS		40	B'01000000'			
+SSCTARDR		20	B'00100000'			
+SSCTLDEL		10	B'00010000'			
SSCTSSID		02	B'00000010'	000D	0	NO
+EQUATED VALUES		--	-----			
+SSCTJES3		03	B'00000011'			
+SSCTJES2		02	B'00000010'			
+SSCTUNKN		00	B'00000000'			
SSCTRSV1(2)		0000		000E	0	NO
SSCTSSEVT		129499E8		0010	0	NO
SSCTSUSE		00C186FC		0014	0	NO
SSCTSYN		00C37BE8		0018	0	NO
SSCTSUS2		00C18308		001C	0	NO
SSCTSCTX		00C3796C		0020	0	NO

0.1 11/14/22.318 01:50PM RS88 a 4,21

Example MAP Structure Definition

S1 - Mainframe Display

File Edit Session Options Transfer View Script Help

Menu Utilities Compilers Help

BROWSE DEV RTE.HSF.HSFA0301.SISFJCL(ISFM7E00) Line 0000003276 col 001 080
Command ==> Scroll ==> CSR

```

MAP NAME(SSCT) REFNAME(IEFJSCVT) LENGTH(36)
  MAPENT FIELD(SSCTID) LENGTH(4) TYPE(CHAR) OFFSET(0000)
  MAPENT FIELD(SSCTSCTA) LENGTH(4) TYPE(ADDR) OFFSET(0004)
  MAPENT FIELD(SSCTSNAME) LENGTH(4) TYPE(CHAR) OFFSET(0008)
  MAPENT FIELD(SSCTFLG1) LENGTH(1) TYPE(BYTE) OFFSET(000C)
  MAPENT FIELD(SSCTSFOR) LENGTH(1) TYPE(BIT) REF(SSCTFLG1) VALUE(80)
  MAPENT FIELD(SSCTUPSS) LENGTH(1) TYPE(BIT) REF(SSCTFLG1) VALUE(40)
  MAPENT FIELD(SSCTARDR) LENGTH(1) TYPE(BIT) REF(SSCTFLG1) VALUE(20)
  MAPENT FIELD(SSCTLDEL) LENGTH(1) TYPE(BIT) REF(SSCTFLG1) VALUE(10)
  MAPENT FIELD(SSCTSSID) LENGTH(1) TYPE(BYTE) OFFSET(000D)
  MAPENT FIELD(SSCTUNKN) LENGTH(1) TYPE(BIT) REF(SSCTS...  
DUPLICATION(2)
  MAPENT FIELD(SSCTSSVT) LENGTH(4) TYPE(ADDR) OFFSET(0010)
  MAPENT FIELD(SSCTSUSE) LENGTH(4) TYPE(HEX) OFFSET(0014)
  MAPENT FIELD(SSCTSNT) LENGTH(4) TYPE(ADDR) OFFSET(0018)
  MAPENT FIELD(SSCTSUS2) LENGTH(4) TYPE(HEX) OFFSET(001C)
  MAPENT FIELD(SSCTSCTX) LENGTH(4) TYPE(HEX) OFFSET(0020)

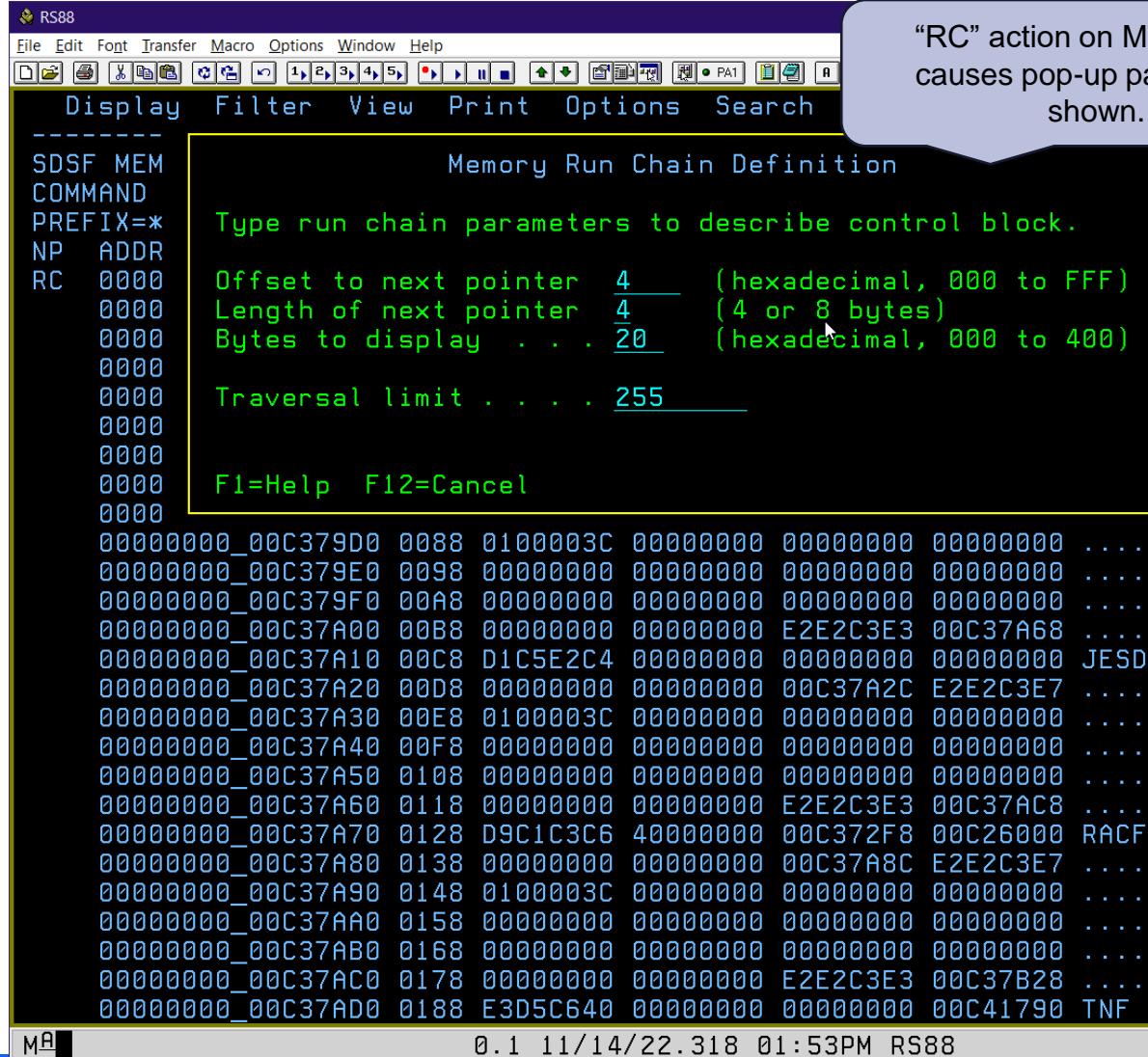
MB 01A          S88TCP13    04/015
  
```

Bitmask values specify the associated byte using “REF”

TYPE(ADDR) makes the field active for memory browse

S1/A | 192.168.55.188 | S88TCP13 | NUM | 00:00:125 | 04. 015

MEM Run Chain



“RC” action on MEM panel causes pop-up panel to be shown.

SDSF MEMORY CHAIN RS88 RS88 0001 *MAS

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

NP	ADDRESS	Seq	Contents	LCBLCB
	00000000_00C37948	1	E2E2C3E3 00C37828 D1C5E2F2	AC020000 SSCT.C .JES2
	00000000_00C37958		129499E8 00C186FC 00C37BE8	00C18308 .mrY.Af .C#Y.Ac
	00000000_00C37828	2	E2E2C3E3 00C37888 D4E2E3D9	00000000 SSCT.C hMSTR.
	00000000_00C37838		00C39468 00000000 00000000	00000000 .Cm .
	00000000_00C37888	3	E2E2C3E3 00C378E8 C9E9E4C7	00000000 SSCT.C YIZUG.
	00000000_00C37898		128D6538 00000000 00000000	00000000 . .
	00000000_00C378E8	4	E2E2C3E3 00C379A8 E2D4E240	00000000 SSCT.C`ySMS
	00000000_00C378F8		00C392B8 00000000 00000000	00000000 .Ck .
	00000000_00C379A8	5	E2E2C3E3 00C37A08 D1C5E2E2	00000000 SSCT.C:.JESS
	00000000_00C379B8		00000000 00000000 00C37C48	00000000 . . .@
	00000000_00C37A08	6	E2E2C3E3 00C37A68 D1C5E2C4	00000000 SSCT.C: JESD.
	00000000_00C37A18		00000000 00000000 00000000	00000000 . .
	00000000_00C37A68	7	E2E2C3E3 00C37AC8 D9C1C3C6	40000000 SSCT.C:HRACF
	00000000_00C37A78		00C372F8 00C26000 00000000	00000000 .C 8.B- .
	00000000_00C37AC8	8	E2E2C3E3 00C37B28 E3D5C640	00000000 SSCT.C#.TNF
	00000000_00C37AD8		00000000 00C41790 00000000	00002900 . . .D.
	00000000_00C37B28	9	E2E2C3E3 00C37B88 E5D4C3C6	00000000 SSCT.C#hVMCF
	00000000_00C37B38		00000000 00C390B8 00000000	00002A00 . . C
	00000000_00C37B88	10	E2E2C3E3 00C37BE8 D9D9E240	00000000 SSCT.C#YRRS
	00000000_00C37B98		00000000 00000000 00000000	00000000 . .
	00000000_00C37BE8	11	E2E2C3E3 00C37C48 C4C6D9D4	00000000 SSCT.C@ DFRM.
	00000000_00C37BF8		00000000 00000000 00000000	90000000 . .
	00000000_00C37C48	12	E2E2C3E3 00C37CA8 D3D6C7D9	00000000 SSCT.C@yLOGR.
	00000000_00C37C58		127E3BE0 00000000 00000000	00000000 .= .
	00000000_00C37CA8	13	E2E2C3E3 00C37D08 D4D7C6E7	00000000 SSCT.C`MPFX.
	00000000_00C37CB8		00000000 00000000 00000000	00000000 . .

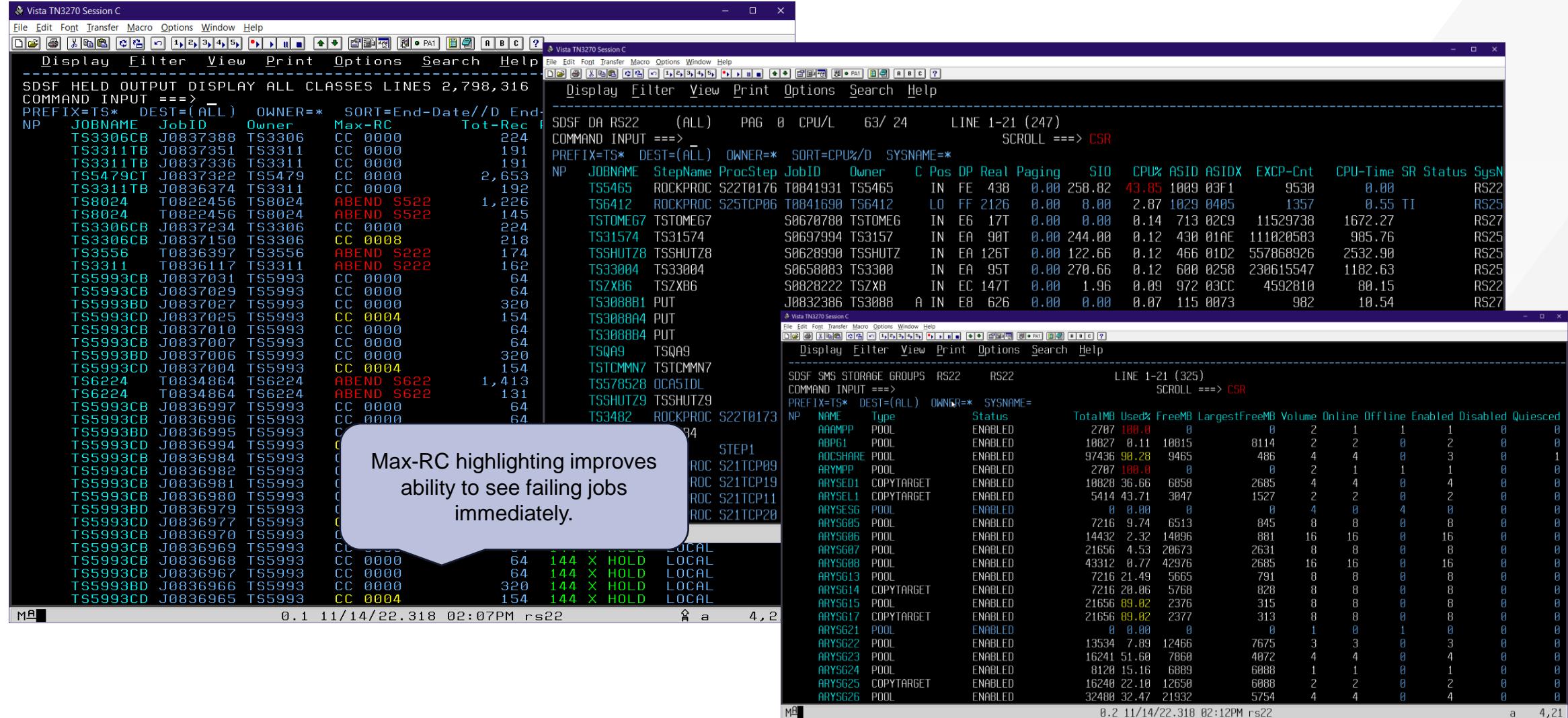
Results from run chain shown
in selectable list using length
specified on pop-up.

Useability Enhancements

Extended Field Highlighting

- Fields on numerous panels now utilize extended highlighting
- Colour change for both character and numerical data depending on value
- Thresholds and ranges currently use internal definitions
- Examples
 - Non-zero return codes on ST and H
 - Percentage values on displays like DA and SMSG
 - Access level permitted for RACF profile
 - Number of extents for data set

Extended Field Highlighting - Examples



Extended Field Highlighting - Examples

RS88

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF ULOG CONSOLE PDSCOT LINE 0 COLUMNS 02- 132
COMMAND INPUT ==> SCROLL ==> CSR

***** TOP OF DATA *****

```
RS88 2022318 09:19:20.39 +ISF045W Unable to open table library ISFTABL, number of saved commands may be limit
RS88 2022318 09:19:26.23 +ISF050I USER=PDSCOT GROUP=ISFSPROG PROC=ROCKPROC TERMINAL=S88TCP06
RS88 2022318 09:19:26.23 +ISF061I User PDSCOT assigned destination operator authority.
RS88 2022318 09:19:28.08 ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.ODSP.HCHECKER
RS88 2022318 09:19:28.08 ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.ODSP.HC
RS88 2022318 09:19:28.09 +ISF059I SAF Access allowed SAFRC=(0,0,0) ACCESS=READ CLASS=SDSF RESOURCE=ISFCMD.ODSP.HC
RS88 2022318 09:19:29.43 +ISF059I SAF Access denied SAFRC=(8,8,0) ACCESS=READ CLASS=XFACILIT RESOURCE=HZS.RS88.I
RS88 2022318 09:19:34.22 ISF031I CONSOLE PDSCOT ACTIVATED
RS88 2022318 09:19:50.00 ISF051I SAF Access allowed SAFRC=0 ACCESS=READ CLASS=SDSF RESOURCE=ISFOPER.SYSTEM Reqst
RS88 2022318 09:19:50.00 -D A,L
RS88 2022318 09:19:50.01 CNZ4105I 09.19.50 DISPLAY ACTIVITY 636
          JOBS      M/S    TS USERS     SYSAS   INITS ACTIVE/MAX VTAM      DAS
          00008     00026   00001    00039    00006  00001 / 00300  00027
          LLA       LLA
          JES2      JES2  IEFPR
          VTAM      VTAM  VTAM
          SDSF      SDSF  SDSF
          APPC      APPC  APPC
          TSO       TSO   STEP
          PRIMEPSA PRIMEPSA IGVD
          RMF       RMF   IEFP
```

Enhancements to certain
“browse” style panels to
highlight individual records.

```
R588
File Edit Fopt Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF OUTPUT DISPLAY ASM_PLPA_COMMON_SIZE      LINE 0      COLUMNS 02- 132
COMMAND INPUT ==> _                           SCROLL ==> CSR
***** TOP OF DATA *****
CHECK(IBMASM,ASM_PLPA_COMMON_SIZE)
SYSPLEX: RSPLEX06 SYSTEM: R588
START TIME: 11/14/2022 05:08:13.972749
CHECK DATE: 20120120 CHECK SEVERITY: MEDIUM-DYNAMIC
CHECK PARM: THRESHOLD(100%)

* Medium Severity Exception *

ILRH0105E PLPA/Common page data set size is below recommended value

Explanation: The size of CSA and ECSA is approximately 183685120
bytes which corresponds to 44845 auxiliary storage slots. The size
of PLPA and EPLPA is approximately 75730942 bytes which corresponds
to 18488 auxiliary storage slots. The size of the Common page data
set is 53999 slots, the size of the PLPA page data set is 179 slots.
The combined size of the PLPA and Common page data sets is 86% of
the slots required for all of CSA/ECSA and PLPA/EPLPA. This is below
the check warning threshold of 100%.
System Action: The system continues processing.

MA
0 1 11/14/22 318 02:20PM R588
Q a 4 21
```

Summary

- New concept of SDSF feature with two supplied components
 - Event Log
 - Module Fetch Monitor
- RACF panels
- Enhancement to memory browse
- Extended highlighting
- 11 New SDSF primary panels
 - Not covered in this presentation
 - Numerous new columns on existing displays



SDSF Hidden Treasures

Rob Scott
Rocket Software
rscott@rs.com

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

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

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 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.

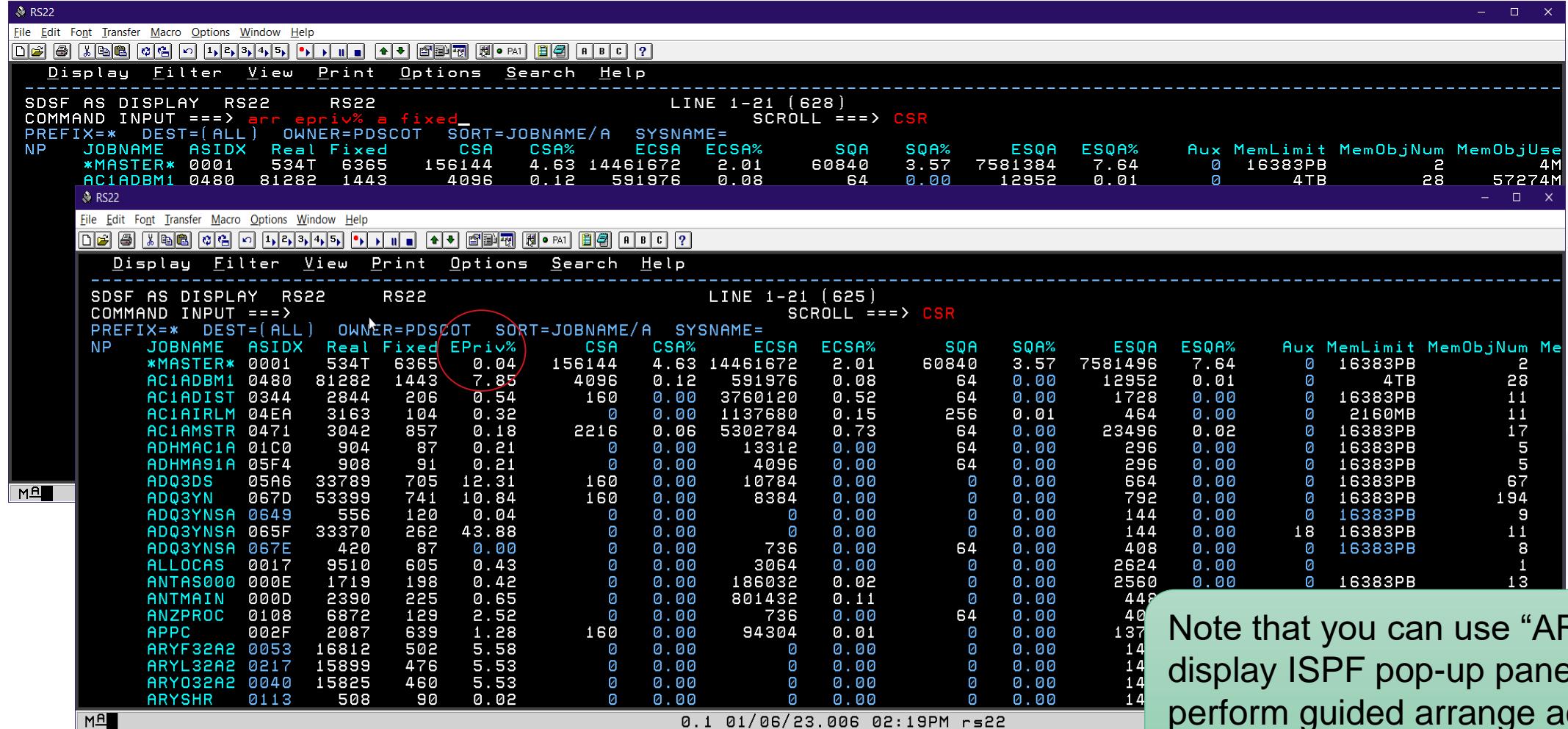
Arrange

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



```
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
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
RS22
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
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  2844  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  1
ANTAS000 000E  1719  198   0.42  0     0.00  186032  0.02  0  0.00  2560  0.00  0  16383PB  13
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  0.00
APPC    002F  2087  639   1.28  160   0.00  94304  0.01  0  0.00  137  0.00
ARYF32A2 0053  16812  502   5.58  0     0.00  0  0.00  0  0.00  14  0.00
ARYL32A2 0217  15899  476   5.53  0     0.00  0  0.00  0  0.00  14  0.00
ARY032A2 0040  15825  460   5.53  0     0.00  0  0.00  0  0.00  14  0.00
ARYSHR  0113  508   90    0.02  0     0.00  0  0.00  0  0.00  14  0.00
0.1 01/06/23.006 02:19PM r=22
```

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

SDFS DA RS22 RS22 PAG 0 CPU/L 18/
COMMAND INPUT ==> filter jobname *DBM1
PREFIX=* DEST=(ALL) OWNER=* SORT=JOBNAME/A
NP JOBNAM 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 ITAMS
ADQ3YN ADQ3YN YNAGENT S0828317 ITAMS
ADQ3YNSA ADQ3YNSA S0827827 ITAMS
ADQ3YNSA ADQ3YNSA S0827609 ITAMS
ADQ3YNSA ADQ3YNSA S0828318 ITAMSTO

J-Time SR Status SysN
379.68 RS22
11.24 RS22
2.22 RS22
41.82 RS22
14.88 RS22
8.76 RS22
4.65 RS22
11.57 RS22
0.00 LW RS22
0.00 LW RS22

ALLOCAS ALLOCA RS22

ANTAS000 ANTAS0 File Edit Font Transfer Macro Options Window Help

ANTMAIN ANTMIAI

ANZPROC ANZPRO

APPC APPC

ARY032A2 ARYAGT

ARYSHR ARYSHR

ARYSHR1 ARYSHR

ARY32AGT ARY32A

ARY32SRV ARY32S

ASCH ASCH

Display Filter View Print Options Search Help

SDFS DA RS22 RS22 PAG 0 CPU/L 14/ 6 LINE 1-21 (21) SCROLL ==> CSR
COMMAND INPUT ==>
PREFIX=* DEST=(ALL) OWNER=* SORT=JOBNAME/A SYSNAME= FILTERS=1
NP JOBNAM 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*
DB1
DB1
DC1
DC1
DC1

```

Note multiple tests for JOBNAMe 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 headers: SDSF DA RS22, RS22, PAG 0, CPU/L 25/10, LINE 1-21 (84), SCROLL ==> CSR. A red circle highlights the word 'FILTERS=5' in the header. 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 list continues for many pages, with the bottom of the screen showing page numbers 0.1 01/09/23.009 10:25AM rs22 and 16,13.

Show Row Information

The screenshot shows two SDSF (System Display Service Facility) 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.

Top Window (SDSF DA RS22):

```
SDSF DA RS22      RS22      PAG 0   CPU/L  20/ 6   LINE 1-21 (SCROLL)
COMMAND INPUT ==>
PREFIX=* DEST=(ALL) OWNER=** SORT=JOBNAME/A SYSNAME=
NP  JOBNAME StepName ProcStep JobID Owner C Pos DP Real Pa
  *MASTER*          S0810051 +MASTER+ NS FF 40T
/_ AC1ADBM1 AC1ADBM1 IEFPROC S0814067 DB2USER NS F2 62T
 AC1ADIST AC1ADIST IEFPROC S0814070 DB2USER NS F2 2635
 AC1AIRLM AC1AIRLM IEFPROC S0814065 DB2USER NS F8 3160
 AC1AMSTR AC1AMSTR IEFPROC S0814063 DB2USER NS F2 2128
 ADQ3DS  ADQ3DS TEMSREMT S0828316 ITCAMSTC NS F2 43T
 ADQ3YN ADQ3YN XMASENT S0828317 ITCAMSTC NS F2 50T
ADQ3YN
```

Bottom Window (SDSF DA RS22):

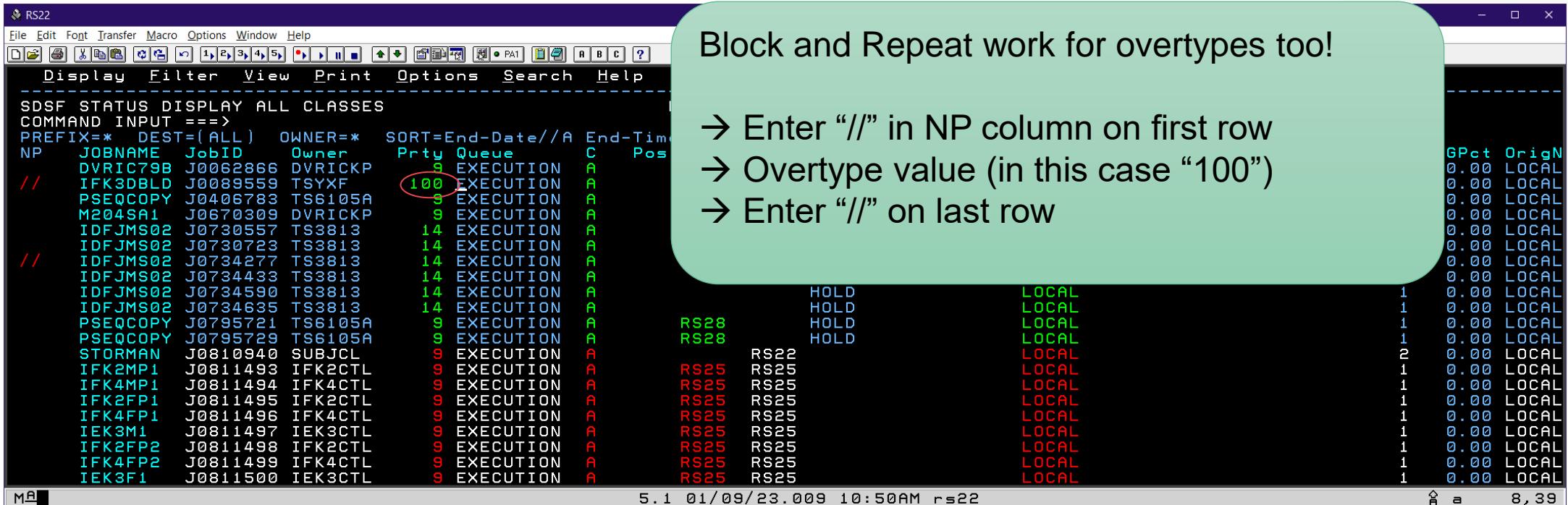
```
SDSF DA RS22      RS22      PAG 0   CPU/L  20/ 6   LINE 1-21 (SCROLL)
COMMAND INPUT ==> _ Show Columns Row 1 to 14 of 64
S Sort column with F5. Use Locate to position to column.
/_ All values Column width
Column      ## Value
JOBNAME      01 AC1ADBM1
StepName     01 AC1ADBM1
ProcStep    01 IEFPROC
JobID       01 S0814067
Owner        01 DB2USER
C            01
Pos          01 NS
DP           01 F2
Real         62,156
Paging       01 0.00
SIO          01 0.00
CPU%         01 0.00
ASID         01 335
ASIDX        01 014F
ARY32SRV    ARY32SRV ARYSPSRV S0816993 ARYSTC LO FF 7636 0.00 1.40 0.20 405 0195
ASCH         ASCH     ASCH          NS FE 417 0.00 0.00 0.00 111 006F
0.1 01/09/23.009 10:41AM rs22
```

Callout Text:

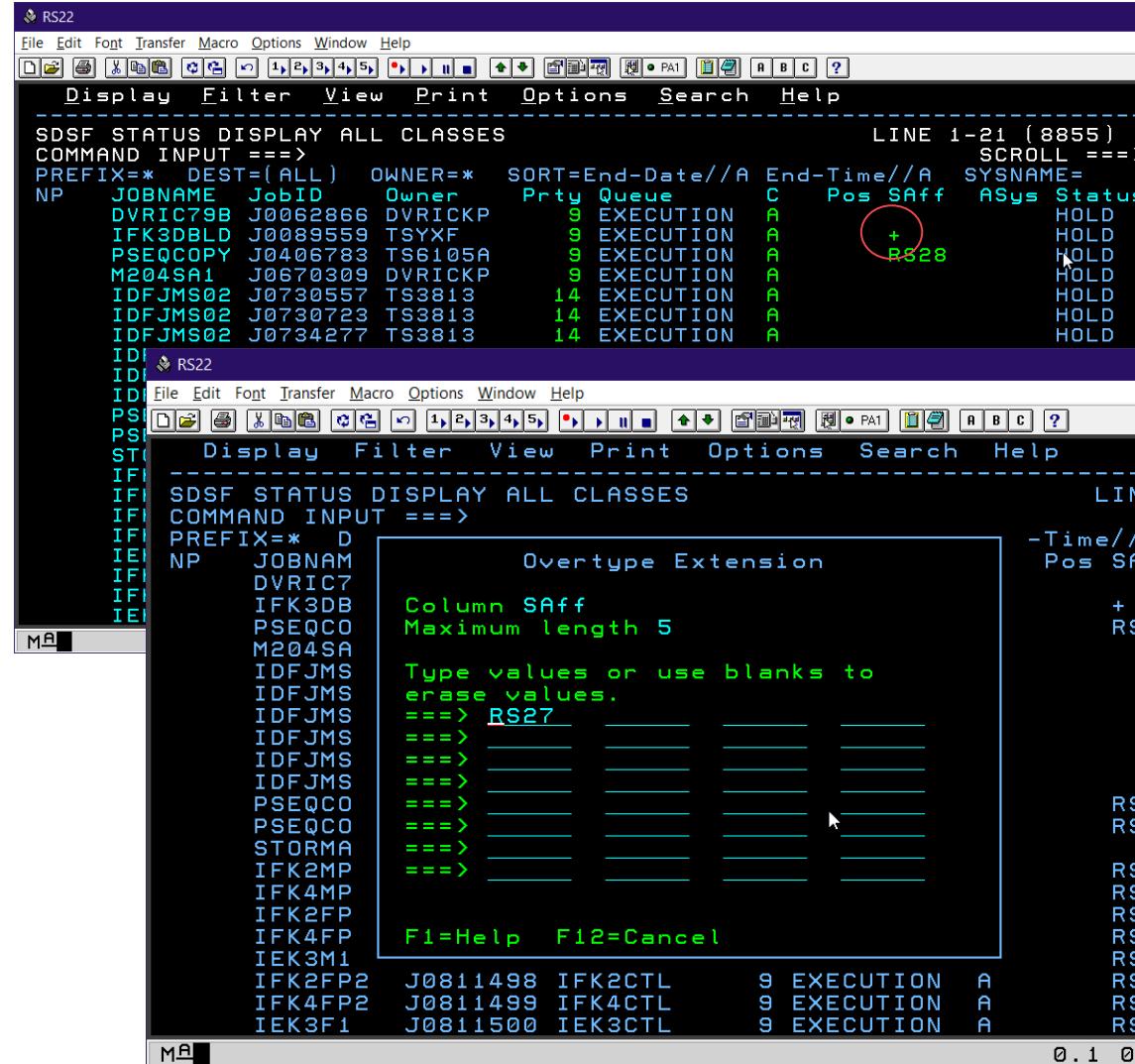
- The “/” action can be issued on any row on any SDSF table.
- Will present the row information in a vertical scrollable format.

Block and Repeat

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



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	
	AC1AIRLMLM	AC1AIRLMLM		S0814065	DB2USER	NC	FF	210	

RS22

File Edit Font Transfer Macro Options Window 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	AC1AIRLMLM	AC1AIRLMLM		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	ANTMAIN	ANTMAIN	IEFPROC			
000015	ANZPROC	ANZPROC	SERVER	S0811019	STCUSER	
000016	APPCC	APPCC				
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	ATHSLS1	ATHSLS1	ATAM	S0824714	STCUSER	
000024	AUZJSX22	AUZJSX22		S0824290	AUZDMON	

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.

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 | SV | 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 image displays two windows of the SDSF Browse application. The top window shows the SDSF OUTPUT DISPLAY command for job PDSCOTN2, with the command input field containing 'n 3'. A callout bubble points to this input field with the text: "N 3" at top of job will skip to the first application data sysout, bypassing JESMSGLG, JESJCL and JESYSMSG. The bottom window shows the actual job log output, which includes system messages like IRR010I and IEF677I, followed by JES2 JOB LOG statistics for job PDSCOTN2, and a list of connects for various datasets.

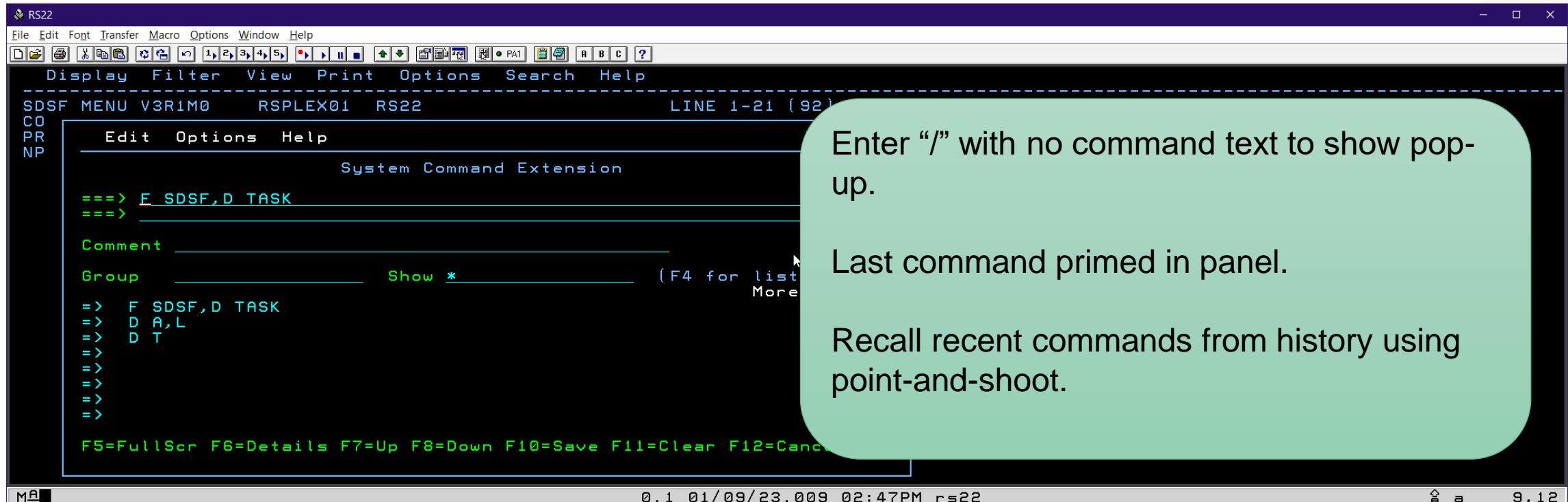
```
SDSF OUTPUT DISPLAY PDSCOTN2 JOB00774 DSID 2 LINE 0 COLUMNS 02- 133  
COMMAND INPUT ==> n 3  
***** TOP OF DATA *****  
J E S 2 J O B L O G -- S Y S T E M R S 8 8 -- N O D E N 8 8  
  
11.16.17 JOB00774 ---- MONDAY,  
11.16.17 JOB00774 IRR010I USER  
11.16.17 JOB00774 IEF677I WARNING  
11.16.17 JOB00774 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
```

Slash Extensions

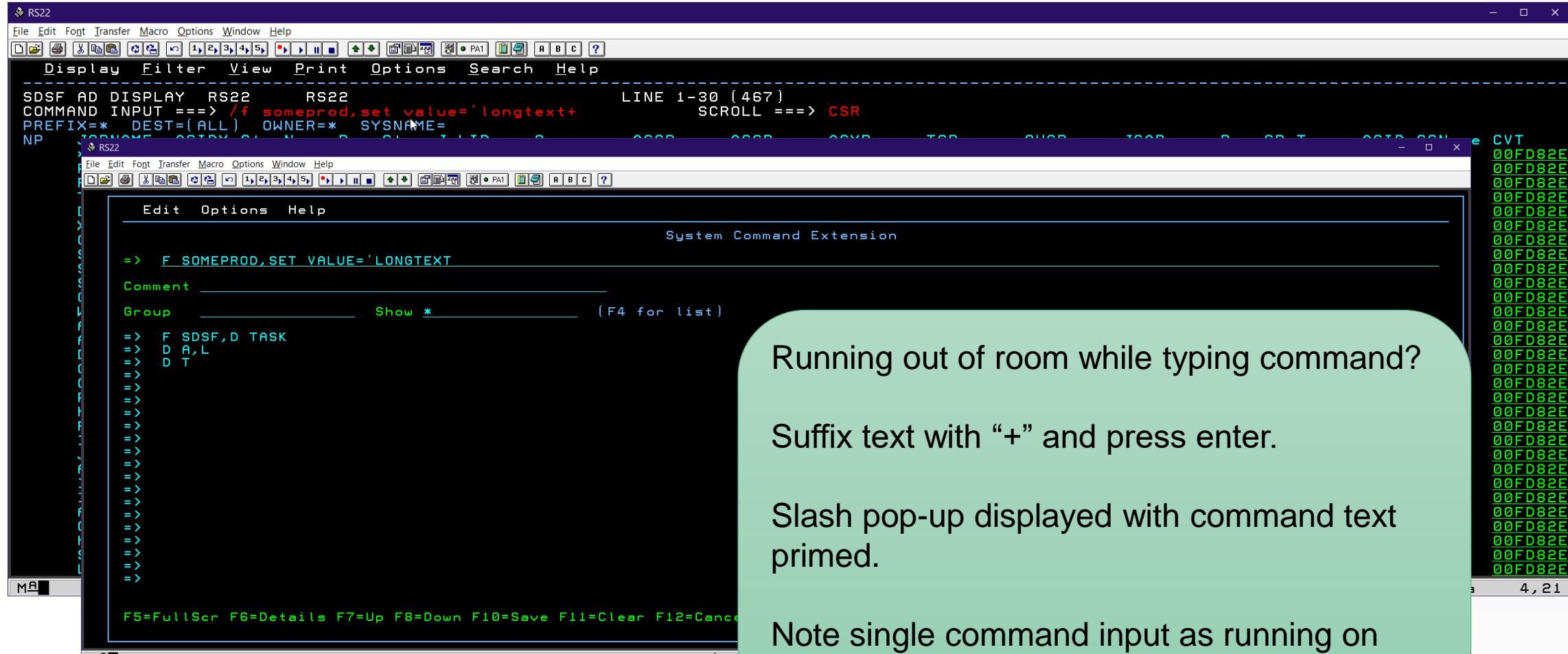
Slash Command Tips

- Enter / with no text to drive pop-up with recently issued commands
- Use pop-up for mixed case command text
 - /cmdtext with 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



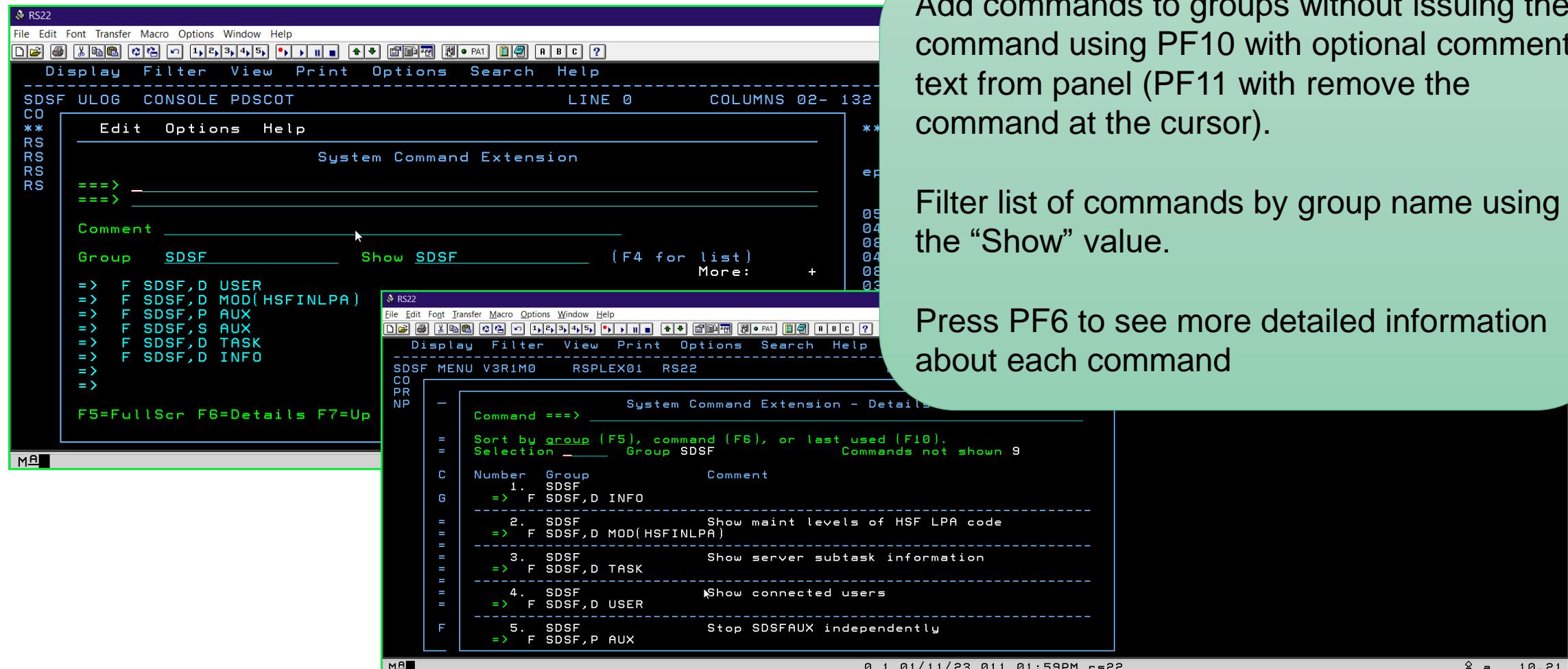
Slash Command Extension



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



Add commands to groups without issuing the command using PF10 with optional comment text from panel (PF11 with remove the command at the cursor).

Filter list of commands by group name using the “Show” value.

Press PF6 to see more detailed information about each command

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 consists of three vertically stacked screenshots of the RS22 ISPF interface. The top screenshot shows a command line search for datasets owned by PDSCOT starting with 'ISR@PR'. The middle screenshot shows the results of the search, listing datasets like RSRTE.LIBDEF.ISPPLIB.NEXT and RSRTE.LIBDEF.ISPPLIB. The bottom screenshot shows a detailed view of one of the dataset members.

RS22

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF JOB DDNAMES RS22 RS22 01E9 PDSCOT LINE 1-21 (66)

COMMAND INPUT ==> srch isr@pr* f - SCROLL ==> CSR

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

NP	TYPE	Seq	Status	DataSetName
SYSUADS	1	ALLOC	SYS1.UADS	
SYSLBC	1	ALLOC	SYS1.BROADCAST	
SYSPRINT	1	ALLOC	PDSCOT.PDSCOT.T0867108.D0000101.?	
ISPPROF	1	OPEN	PDSCOT.RS22.ISPPROF	
ISPTABL	1	ALLOC	PDSCOT.RS22.ISPPROF	
ISPCTL1	1	ALLOC	PDSCOT.RS22.SPFTEMP1.CNTL	
ISPWRK1	1	ALLOC	PDSCOT.RS22.SPFTEMP1.WORK	
ISPLST1	1	ALLOC	PDSCOT.RS22.SPFTEMP1.LIST	
ISPCTL2				
ISPWRK2				
ISPLST2				
ISPLLOG				
SYSEXEC				
ISPLLIB				

RS22

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF DATA SET SEARCH ISR@PR* FOUND LINE 1-4 (4)

COMMAND INPUT ==>

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

NP	DSNAME	Seq	VolSer	Status	DSOrg	BlkSize
SB	RSRTE.LIBDEF.ISPPLIB.NEXT	29	R3P106	FOUND	PO	27920
	RSPLEX01.LIBDEF.ISPPLIB	31	MCP100	FOUND	PO	27920
	RSRTE.LIBDEF.ISPPLIB	32	R3P101	F	RS22	4 NO 80 FB 2005.208 2023.011 RS22 ISR@PR*
	ISP.SISPENU	34	RZ205X	F		

RS22

File Edit Font Transfer Macro Options Window Help

BROWSE RSRTE.LIBDEF.ISPPLIB.NEXT Row 0000001 of 0000001

Command ==> - Scroll ==> PAGE

Name	Prompt	Size	Created	Changed	ID
. ISR@PRIM		415	2016/12/15	2022/05/31 09:23:14	TSS582

End

0.1 01/11/23.011 02:31PM r=22

a 4/15

“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.

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