

z/OS 3.1 IBM Education Assistant

Solution Name: SDSF

Solution Number(s): SDSF 3.1

July 2023



Agenda

- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
- Installation & Configuration
- Summary
- Appendix

Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
 - None

Objectives

- New optional features :
 - The SDSF Event Log
 - Module Fetch Monitor
- New RACF panels
- New SDSF primary commands
- Usability enhancements

Overview

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

Usage & Invocation

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

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

NP	NAME	SysName	Date	Description
	SYSTEM_DUMP	RS22	2022/11/10 07:53:59.71	System dump detected : ERROR IN INITIATOR, ABEND=878, COMPOIN=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 TS6025(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
	SMF_SYNC	RS22	2022/11/10 05:45:13.61	Jobname TS3654(T0731264) OWNER=TS3654 ended abended CC=S222
	DYNAMIC_APF_ADD	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
	JOB_ABEND	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 (ARYSXAA) placed online
	DEVICE_ONLINE	RS22	2022/11/10 05:08:03.30	Device number C3C6 (ARYSXCA) placed online
	DEVICE_ONLINE	RS22	2022/11/10 05:08:03.30	Device number C3C5 (ARYSXBA) placed online
	VOLUME_AVAILABLE	RS22	2022/11/10 05:08:03.29	Device number C3C4 (ARYSXAA) made available
	VOLUME_AVAILABLE	RS22	2022/11/10 05:08:03.29	Device number C3C6 (ARYSXCA) made available
	VOLUME_AVAILABLE	RS22	2022/11/10 05:08:03.29	Device number C3C5 (ARYSXBA) 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

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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.

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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

RS88

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDFS 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	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.SISPLOAD	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

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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

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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

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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 M a 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.

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.

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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	OPERCMD	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	APPCCPORT	APPCSV
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

RS88

File Edit Font Transfer Macro Options Window Help

Display Filter View

SDSF MAP RS88 RS88 SSCT 0001 *MASTER* LINE 1-20 (20)
COMMAND INPUT ==> SCROLL ==> CSR

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
SSCTSSTVT		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

Structure format now shown in SDSF table.

"D" and "G" actions available to invoke MEM on address value in Content field.

"M" action against a row will invoke MEM for the address and then format the new content inheriting the same map.

This allows user to process linked list in structure format.

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)

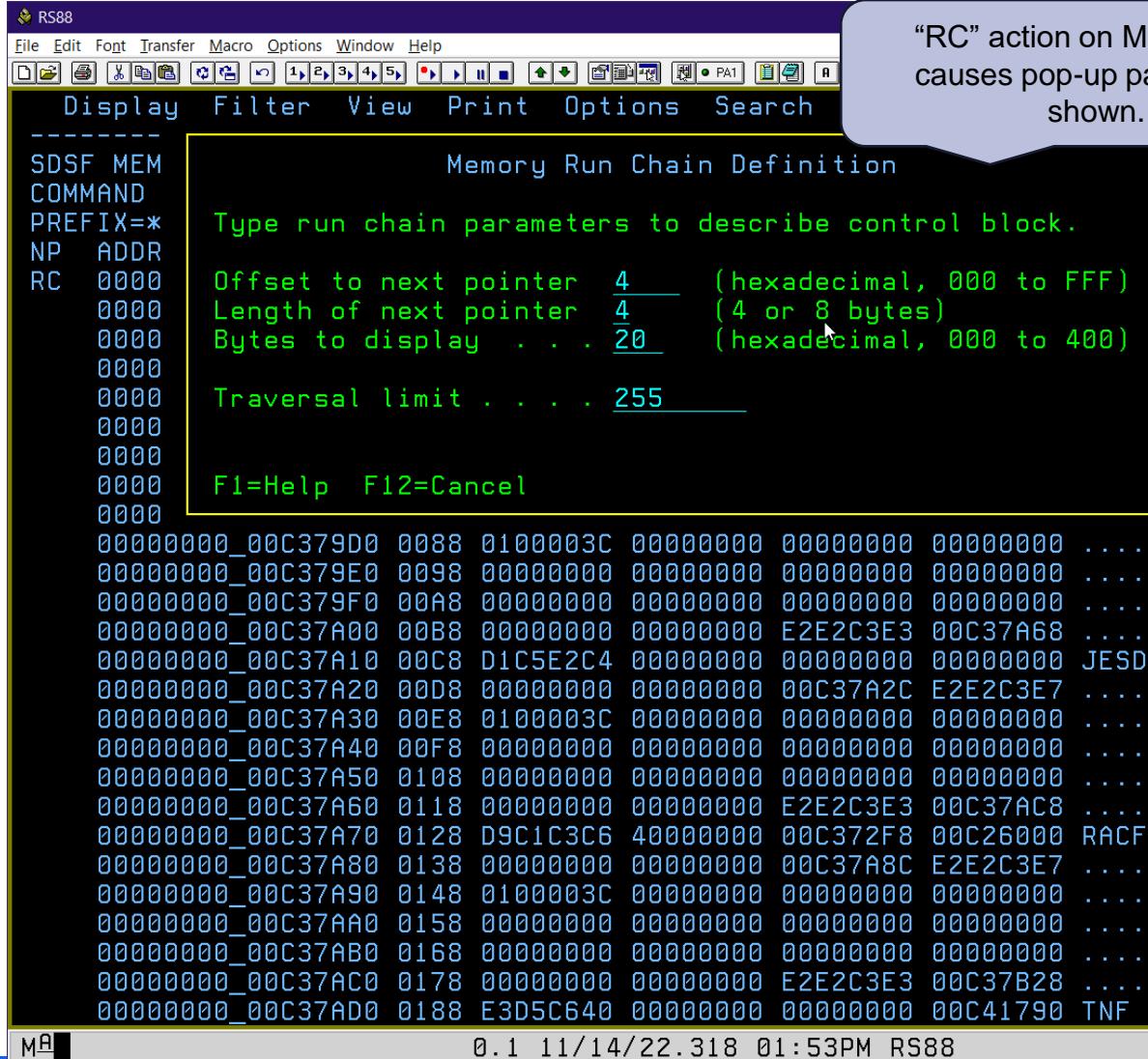
MB 01A          S88TCP13    04/015
  
```

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.

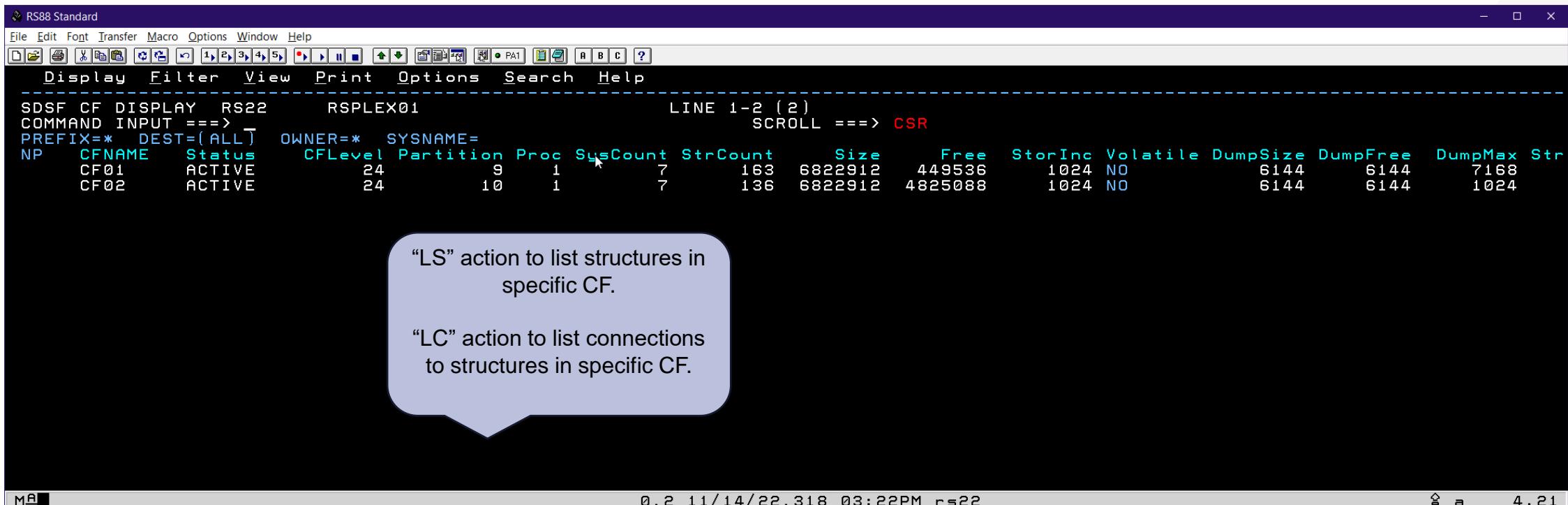
Other New SDSF Panels

New SDSF Primary Panels

- CF Coupling facilities
- CFSA CF structure activity
- DASH Dashboard
- EDT Eligible device table
- LPAR Logical partitions
- PLEX Sysplex systems
- PPT Program properties table
- PROD Registered products
- UCB Unit control blocks
- XCFA XCF Application servers
- XCFP XCF Signalling paths

Coupled with previous slides,
there are 23 new panels in
SDSF 3.1 !

Coupling Facilities (CF)



The screenshot shows a terminal window titled "RS88 Standard" with a menu bar including File, Edit, Font, Transfer, Macro, Options, Window, Help, and a toolbar with various icons. The command entered is "SDSF CF DISPLAY RS22" followed by "RSPLEX01". The output displays the following information:

```

SDSF CF DISPLAY RS22          RSPLEX01           LINE 1-2 (2)
COMMAND INPUT ===>           SCROLL ===> CSR
PREFIX= * DEST=( ALL ) OWNER= * SYSNAME=
NP   CFNAME    Status     CFLevel Partition Proc SysCount StrCount   Size    Free   StorInc Volatile DumpSize DumpFree  DumpMax Str
  CF01      ACTIVE       24          9      1        7      163  6822912  449536  1024 NO    6144    6144    7168
  CF02      ACTIVE       24          10     1        7      136  6822912  4825088  1024 NO    6144    6144    1024

```

A callout bubble highlights the "CFNAME" column with the text: "LS" action to list structures in specific CF.

Another callout bubble highlights the "Status" column with the text: "LC" action to list connections to structures in specific CF.

At the bottom of the terminal window, the timestamp is "0.2 11/14/22.318 03:22PM rs22" and the cursor position is "4,21".

CF Structure Activity (CFSA)

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF CF STRUCTURE ACTIVITY RS22 RSPLEX01 LINE 1-21 (163)

COMMAND INPUT ==> SCROLL ==> CSR

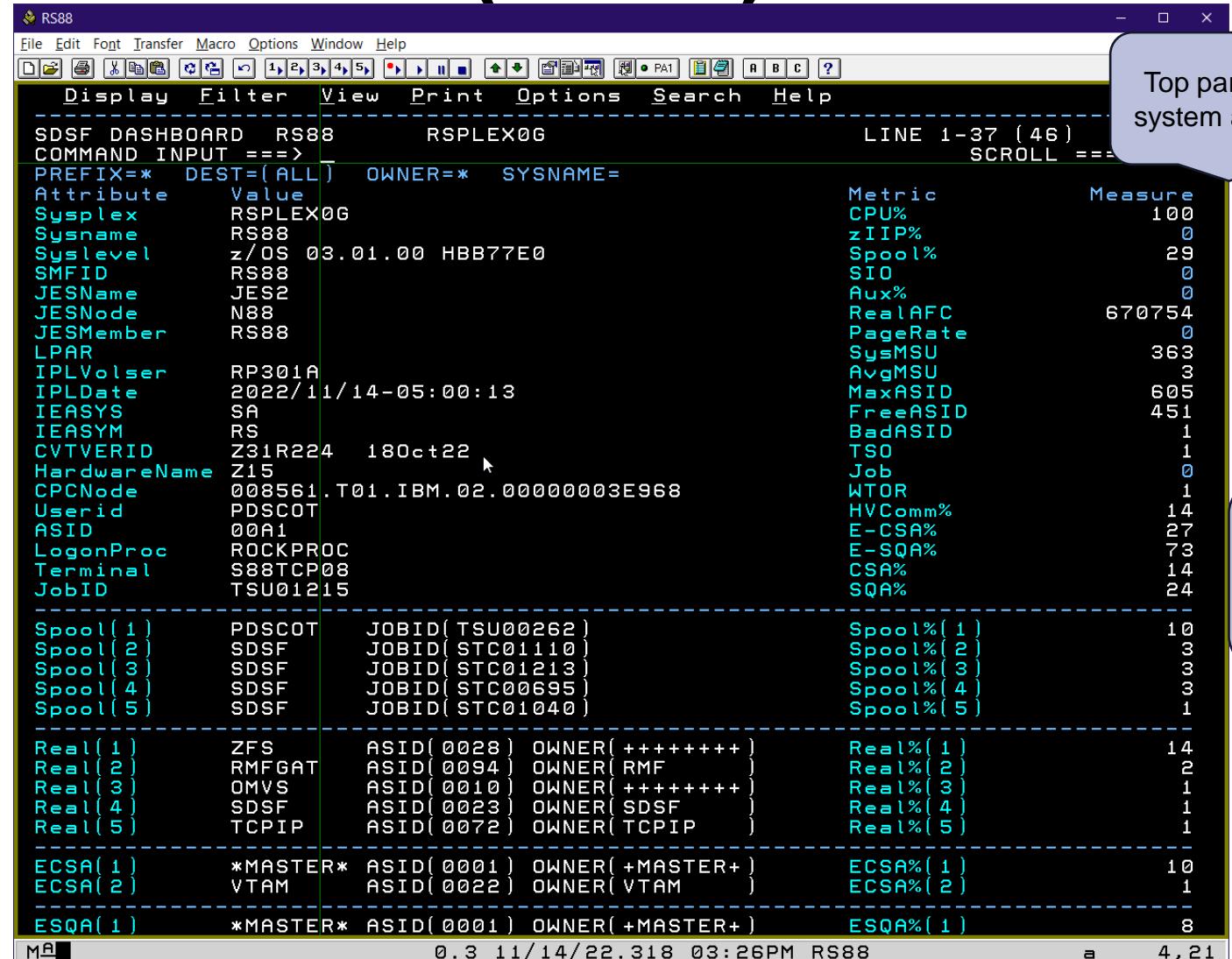
PREFIX=*	DEST=(ALL)	OWNER=*	SORT=SYNCAVGTIME/D	SYSNAME=	SyncRate	SyncAvgTime	AsyncRate	AsyncAvgTime	SyncCou
NP	STRNAME	Type	SysName						
	RRS_RM_DATA	LIST	RS21		0.0	8	0.0	86	
	QDS2_SCA	LIST	RS21		0.0	7	0.0	0	2
	RRS_MAIN_UR	LIST	RS21		0.0	7	0.0	0	
	QDS2_GBP0	CACHE	RS21		0.0	6	0.0	0	
	RRS_DELAYED_UR	LIST	RS21		0.0	6	0.0	0	
	RRS_RESTART	LIST	RS21		0.0	5	0.0	19	
	RRS_ARCHIVE	LIST	RS21		0.0	4	0.0	0	
	SYSARC_CRQ01_RCL	SERLIST	RS21		0.0	4	0.0	0	
	OPERLOG	LIST	RS21		0.0	3	0.0	0	
	SYSIGGCAS_ECS	CACHE	RS21		0.0	3	0.0	0	
	IRRXCF00_P001	CACHE	RS21		0.0	2	0.0	0	1
	ISGLOCK	LOCK	RS		0.0	0.0	0.0	0.00	
	QDS2_LOCK1	LOCK	RS		0.0	0.0	0.0	0.00	7
	APPC_STR1	LIST	RS		0.0	0.0	0.0	0.00	
	DDS1_GBP0	CACHE	RS		0.0	0.0	0.0	0.00	
	DDS1_GBP16K0	CACHE	RS		0.0	0.0	0.0	0.00	39
	DDS1_GBP32K	CACHE	RS21		0.0	0.0	0.0	0.00	
	DDS1_GBP8K0	CACHE	RS21		0.0	0.0	0.0	0.00	22
	DDS1_LOCK1	LOCK	RS21		0.0	0.0	0.0	0.00	
	DDS1_SCA	LIST	RS21		0.0	0.0	0.0	0.00	
	DDS2_GBP0	CACHE	RS21		0.0	0.0	0.0	0.00	

MA 0.1 11/14/22.318 03:23PM rs22 4,21

"L" action to invoke the CFS display for the structure name.

SDSF calls RMF to retrieve information on CF structure activity.

Dashboard (DASH)



The screenshot shows the RS88 DASH interface. The top part displays system and user information, including the command input 'SDSF DASHBOARD RS88 RSPLEX0G'. Below this is a table of system attributes and their values. To the right is a table of top consumers of system resources, with a callout pointing to it. The bottom part shows a list of spool and real resources.

Attribute	Value	Metric	Measure
Sysplex	RSPLEX0G	CPU%	100
Sysname	RS88	zIIP%	0
Syslevel	z/OS 03.01.00 HBB77E0	Spool%	29
SMFID	RS88	SIO	0
JESName	JES2	Aux%	0
JESNode	N88	RealAFC	670754
JESMember	RS88	PageRate	0
LPAR		SysMSU	363
IPLVolser	RP301A	AvgMSU	3
IPLDate	2022/11/14-05:00:13	MaxASID	605
IEASYS	SA	FreeASID	451
IEASYM	RS	BadASID	1
CVTVERID	Z31R224 180ct22	TSO	1
HardwareName	Z15	Job	0
CPCNode	008561.T01.IBM.02.00000003E968	WTOR	1
Userid	PDSCOT	HVComm%	14
ASID	00A1	E-CSA%	27
LogonProc	ROCKPROC	E-SQA%	73
Terminal	S88TCP08	CSA%	14
JobID	TSU01215	SQA%	24
Spool(1)	PDSCOT	Spool%(1)	10
Spool(2)	SDSF	Spool%(2)	3
Spool(3)	SDSF	Spool%(3)	3
Spool(4)	SDSF	Spool%(4)	3
Spool(5)	SDSF	Spool%(5)	1
Real(1)	ZFS	Real%(1)	14
Real(2)	RMFGAT	Real%(2)	2
Real(3)	OMVS	Real%(3)	1
Real(4)	SDSF	Real%(4)	1
Real(5)	TCPIP	Real%(5)	1
ECSA(1)	*MASTER*	ECSA%(1)	10
ECSA(2)	VTAM	ECSA%(2)	1
ESQA(1)	*MASTER*	ESQA%(1)	8

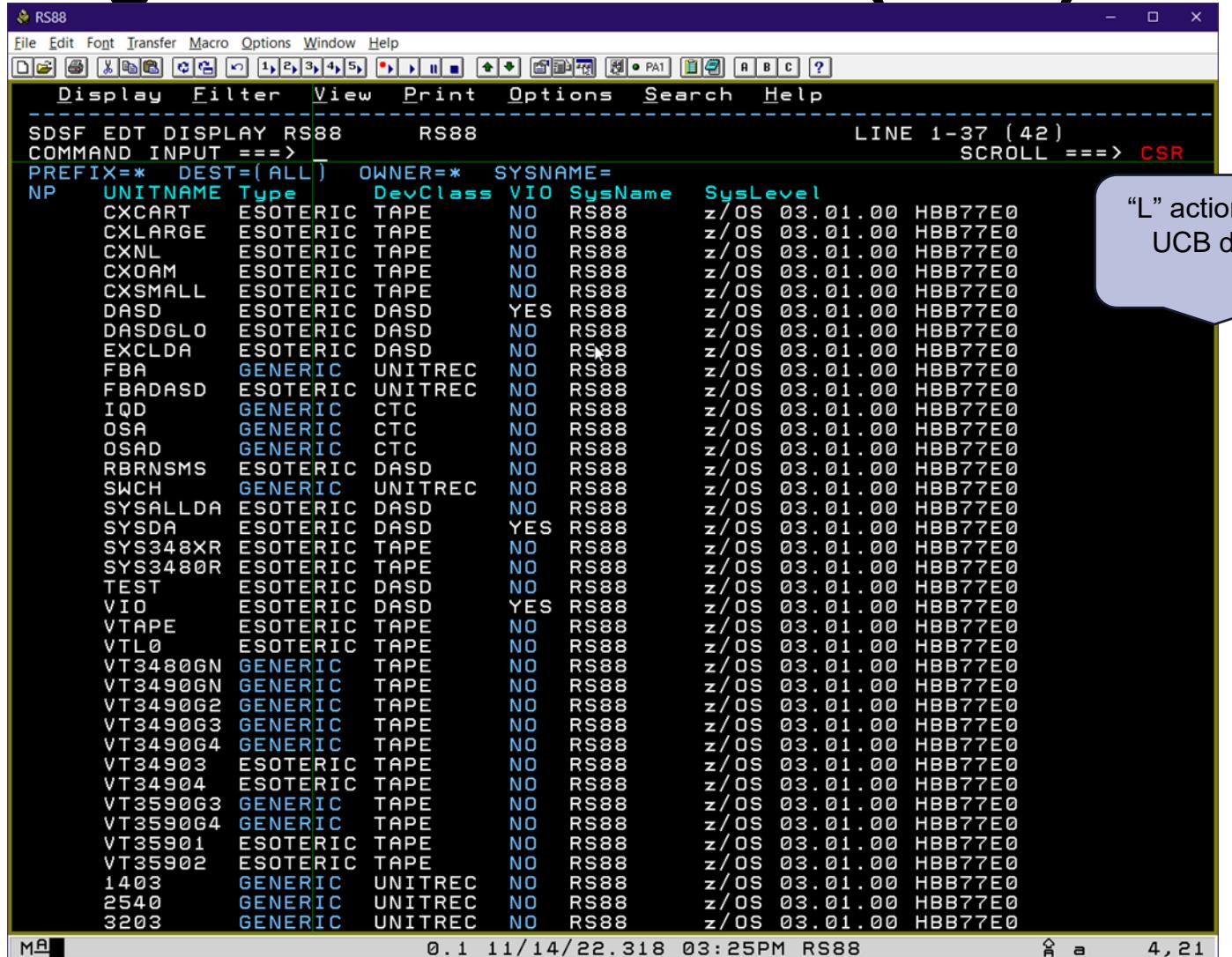
Bottom status bar: M8 0.3 11/14/22.318 03:26PM RS88 a 4,21

Top part of display contains system and user information.

Up to 5 top consumers of system resources listed for :

Spool, Real, (E)CSA and (E)SQA.

Eligible Device Table (EDT)

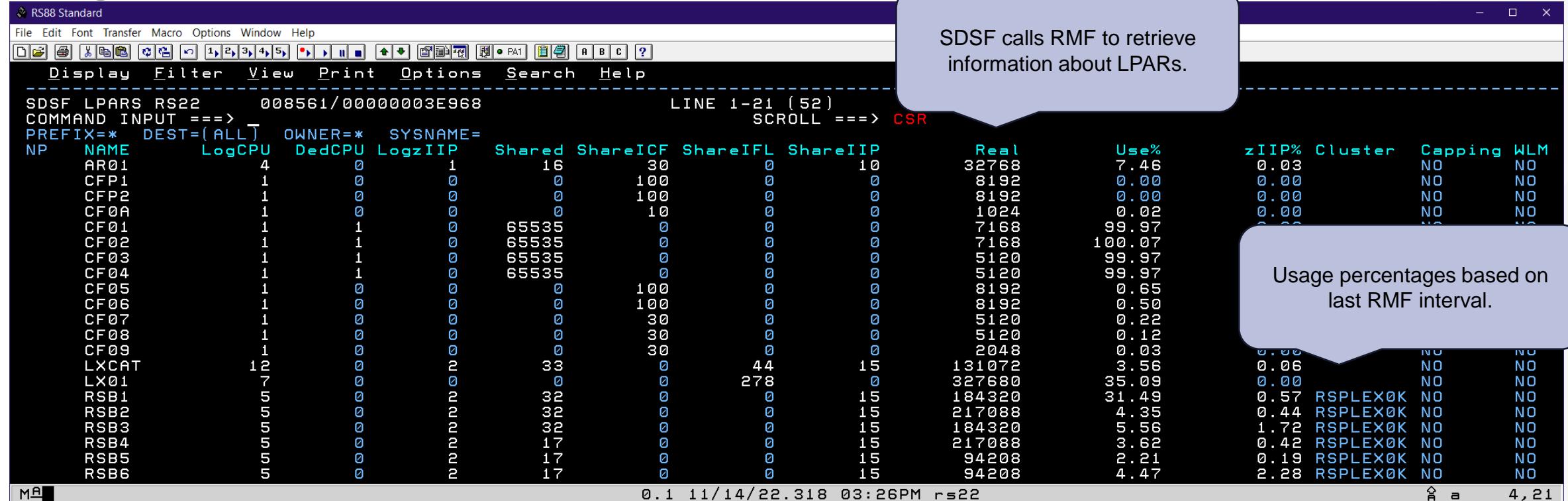


The screenshot shows the SDSF EDT DISPLAY RS88 window. The menu bar includes File, Edit, Font, Transfer, Macro, Options, Window, Help, Display, Filter, View, Print, Options, Search, and Help. The title bar shows SDSF EDT DISPLAY RS88 RS88. The status bar at the bottom displays 0.1 11/14/22.318 03:25PM RS88 4,21. A callout bubble points to the 'L' action in the menu bar, which is described as "L" action to invoke the new UCB display for the unit name.

PREFIX=*	DEST=(ALL)	OWNER=*	SYSNAME=	NP	UNITNAME	Type	DevClass	VIO	SysName	SysLevel
					CXCART	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					CXLARGE	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					CXNL	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					CXOAM	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					CXSMALL	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					DASD	ESOTERIC	DASD	YES	RS88	z/OS 03.01.00 HBB77E0
					DASDGLO	ESOTERIC	DASD	NO	RS88	z/OS 03.01.00 HBB77E0
					EXCLDA	ESOTERIC	DASD	NO	RS88	z/OS 03.01.00 HBB77E0
					FBA	GENERIC	UNITREC	NO	RS88	z/OS 03.01.00 HBB77E0
					FBADASD	ESOTERIC	UNITREC	NO	RS88	z/OS 03.01.00 HBB77E0
					IQD	GENERIC	CTC	NO	RS88	z/OS 03.01.00 HBB77E0
					OSA	GENERIC	CTC	NO	RS88	z/OS 03.01.00 HBB77E0
					OSAD	GENERIC	CTC	NO	RS88	z/OS 03.01.00 HBB77E0
					RBRNSMS	ESOTERIC	DASD	NO	RS88	z/OS 03.01.00 HBB77E0
					SWCH	GENERIC	UNITREC	NO	RS88	z/OS 03.01.00 HBB77E0
					SYSALLLDA	ESOTERIC	DASD	NO	RS88	z/OS 03.01.00 HBB77E0
					SYSDA	ESOTERIC	DASD	YES	RS88	z/OS 03.01.00 HBB77E0
					SYS348XR	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					SYS3480R	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					TEST	ESOTERIC	DASD	NO	RS88	z/OS 03.01.00 HBB77E0
					VIO	ESOTERIC	DASD	YES	RS88	z/OS 03.01.00 HBB77E0
					VTAPE	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VTL0	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT3480GN	GENERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT3490GN	GENERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT3490G2	GENERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT3490G3	GENERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT3490G4	GENERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT34903	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT34904	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT3590G3	GENERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT3590G4	GENERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT35901	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					VT35902	ESOTERIC	TAPE	NO	RS88	z/OS 03.01.00 HBB77E0
					1403	GENERIC	UNITREC	NO	RS88	z/OS 03.01.00 HBB77E0
					2540	GENERIC	UNITREC	NO	RS88	z/OS 03.01.00 HBB77E0
					3203	GENERIC	UNITREC	NO	RS88	z/OS 03.01.00 HBB77E0

Logical Partitions (LPAR)

RS88 Standard



The screenshot shows the SDSF interface with the command `SDSF LPARS RS22` entered. The output displays usage statistics for various logical partitions (LPARs) across different resource classes (Real, ShareIIP, ShareIFL, ShareICF). A callout bubble points to the text "SDSF calls RMF to retrieve information about LPARs." Another callout bubble points to the "Use%" column, stating "Usage percentages based on last RMF interval."

NP	NAME	LogCPU	DedCPU	LogzIIP	Shared				Real	Use%	zIIP%	Cluster	Capping	WLM
					Shared	ShareICF	ShareIFL	ShareIIP						
	AR01	4	0	1	16	30	0	10	32768	7.46	0.03	NO	NO	
	CFP1	1	0	0	0	100	0	0	8192	0.00	0.00	NO	NO	
	CFP2	1	0	0	0	100	0	0	8192	0.00	0.00	NO	NO	
	CF0A	1	0	0	0	10	0	0	1024	0.02	0.00	NO	NO	
	CF01	1	1	0	65535	0	0	0	7168	99.97	100.00	0.07	NO	NO
	CF02	1	1	0	65535	0	0	0	7168	100.00	100.00	0.07	NO	NO
	CF03	1	1	0	65535	0	0	0	5120	99.97	100.00	0.07	NO	NO
	CF04	1	1	0	65535	0	0	0	5120	99.97	100.00	0.07	NO	NO
	CF05	1	0	0	0	100	0	0	8192	0.65	0.00	NO	NO	
	CF06	1	0	0	0	100	0	0	8192	0.50	0.00	NO	NO	
	CF07	1	0	0	0	30	0	0	5120	0.22	0.00	NO	NO	
	CF08	1	0	0	0	30	0	0	5120	0.12	0.00	NO	NO	
	CF09	1	0	0	0	30	0	0	2048	0.03	0.00	NO	NO	
	LXCAT	12	0	2	33	0	44	15	131072	3.56	0.06	NO	NO	
	LX01	7	0	0	0	0	278	0	327680	35.09	0.00	NO	NO	
	RSB1	5	0	2	32	0	0	15	184320	31.49	0.57	RSPLEXOK	NO	NO
	RSB2	5	0	2	32	0	0	15	217088	4.35	0.44	RSPLEXOK	NO	NO
	RSB3	5	0	2	32	0	0	15	184320	5.56	1.72	RSPLEXOK	NO	NO
	RSB4	5	0	2	17	0	0	15	217088	3.62	0.42	RSPLEXOK	NO	NO
	RSB5	5	0	2	17	0	0	15	94208	2.21	0.19	RSPLEXOK	NO	NO
	RSB6	5	0	2	17	0	0	15	94208	4.47	2.28	RSPLEXOK	NO	NO

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Sysplex Systems (PLEX)

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF SYSPLEX DISPLAY RS22 RSPLEX01 LINE 1-7 (7)
COMMAND INPUT ==> SCROLL ==> CSR

PREFIX=*	DEST=(ALL)	OWNER=*	SYSNAME=	Status-Time	MonitorTime	OperatorTime	LPAR	CloneID	Version	Type	Serial	Monitor	SysID	Timi
NP	SYSTEM	Status		2022/11/14 10:27:46	16500	16800	1	21	5	8561	E968	010001CF	STP	
	RS21	ACTIVE		2022/11/14 10:27:49	16500	16800	2	22	5	8561	E968	020001C9	STP	
	RS22	ACTIVE		2022/11/14 10:27:47	16500	16800	3	23	5	8561	E968	030001C8	STP	
	RS23	ACTIVE		2022/11/14 10:27:49	16500	16800	5	25	5	8561	E968	040001CA	STP	
	RS25	ACTIVE		2022/11/14 10:27:48	16500	16800	6	26	5	8561	E968	050001CB	STP	
	RS26	ACTIVE		2022/11/14 10:27:48	16500	16800	7	27	5	8561	E968	060001CC	STP	
	RS27	ACTIVE		2022/11/14 10:27:46	16500	16800	8	28	5	8561	E968	070001CD	STP	
	RS28	ACTIVE												

Various actions to invoke sysplex-related displays filtered by system name.

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Program Properties Table (PPT)

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF PROGRAM PROPERTIES RS22 RS22 LINE 1-21 (134)
COMMAND INPUT ==> SCROLL ==> CSR

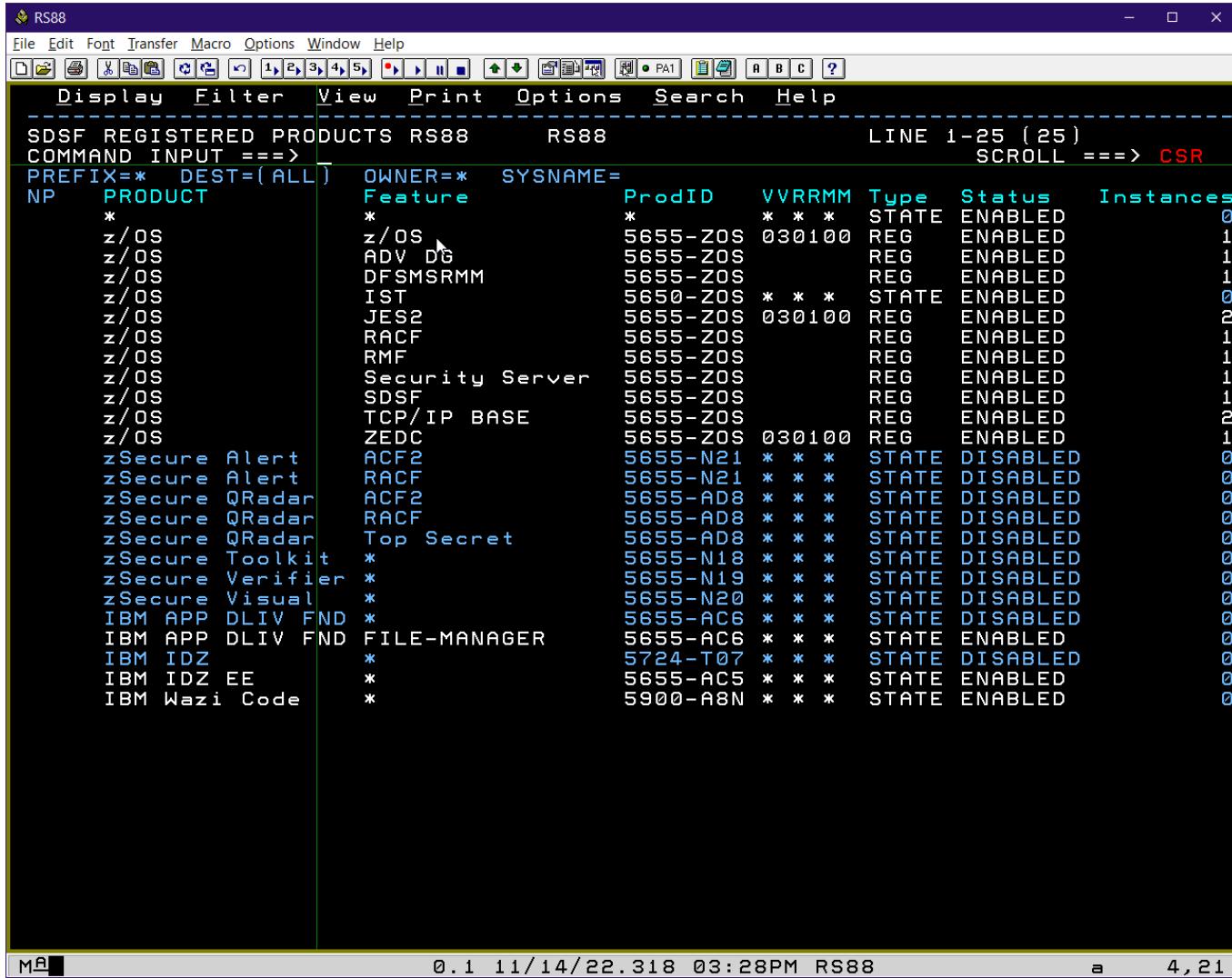
PREFIX=*= DEST=(ALL) OWNER=*= SYSNAME=

NP	MODULE	Key	NoCancel	NonSwap	Privileged	NoDSI	NoPass	NoIEFUSI	SPref	LPref	NoPref	SysTask	CritPaging	Origin	NoDSIBatch	NoPassB
	AHLGTF	0	YES	YES	NO	NO	NO	NO	NO	YES	YES	NO	IBM	NO	NO	NO
	AIIC0000	7	NO	YES	NO	NO	NO	NO	NO	YES	YES	NO	USER	NO	NO	NO
	AIIS0000	8	NO	NO	YES	NO	NO	NO	NO	YES	YES	NO	USER	NO	NO	NO
	ANFFIEP	1	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES	NO	USER	NO	NO
	APSHPOSE	1	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES	NO	IBM	NO	NO
	APSKAFPD	1	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES	NO	IBM	NO	NO
	APSPPIEP	1	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES	NO	IBM	NO	NO
	ASBSCHIN	1	NO	YES	NO	NO	NO	NO	YES	YES	NO	YES	NO	IBM	NO	NO
	ASBSCHWL	1	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	IBM	NO	NO
	ATBINITM	1	NO	YES	NO	NO	NO	NO	YES	YES	NO	YES	NO	IBM	NO	NO
	ATBSDFMU	1	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	IBM	NO	NO
	AVFMBNLD	3	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	IBM	NO	NO
	AXRINIT	8	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	IBM	NO	NO
	AXRRXTSS	8	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	IBM	NO	NO
	AZFSTCMN	2	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	USER	NO	NO
	BBOCTL	2	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	USER	NO	NO
	BBODAEMN	2	NO	YES	YES	NO	NO	NO	NO	NO	NO	YES	NO	USER	NO	NO
	BHII1TPC	0	YES	NO	YES									IBM	NO	NO
	BNJLINTX	8	NO	YES	NO									IBM	NO	NO
	BPEINI00	7	NO	YES	NO									USER	NO	NO
	BPXBATA2	2	NO	YES	YES									USER	NO	NO

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Both IBM supplied and SCHEDxx specifications shown.

Registered Products (PROD)



The screenshot shows an RS88 terminal window with the title bar "RS88". The menu bar includes File, Edit, Font, Transfer, Macro, Options, Window, and Help. The toolbar contains various icons for file operations like Open, Save, Print, and Copy. The main display area shows a list of registered products. The title of the display is "SDSF REGISTERED PRODUCTS RS88" and the command input is "COMMAND INPUT ==>". The display shows columns for PREFIX, PRODUCT, OWNER, Feature, SYSNAME, ProdID, VVRRMM, Type, Status, and Instances. The data lists numerous products such as z/OS, ADV DG, DFSMSRMM, IST, JES2, RACF, RMF, Security Server, SDSF, TCP/IP BASE, ZEDC, zSecure Alert, zSecure QRadar, IBM APP DLIV FND, and IBM Wazi Code, along with their respective details. The status column indicates whether they are Enabled or Disabled.

PREFIX=*	DEST=(ALL)	OWNER=*	Feature	SYSNAME=	ProdID	VVRRMM	Type	Status	Instances
			*	*	*	*	*	ENABLED	0
z/OS		z/OS	z/OS		5655-ZOS	030100	REG	ENABLED	1
z/OS		ADV DG			5655-ZOS		REG	ENABLED	1
z/OS		DFSMSRMM			5655-ZOS		REG	ENABLED	1
z/OS		IST			5650-ZOS	* * *	STATE	ENABLED	0
z/OS		JES2			5655-ZOS	030100	REG	ENABLED	2
z/OS		RACF			5655-ZOS		REG	ENABLED	1
z/OS		RMF			5655-ZOS		REG	ENABLED	1
z/OS		Security Server			5655-ZOS		REG	ENABLED	1
z/OS		SDSF			5655-ZOS		REG	ENABLED	1
z/OS		TCP/IP BASE			5655-ZOS		REG	ENABLED	2
z/OS		ZEDC			5655-ZOS	030100	REG	ENABLED	1
zSecure Alert		ACF2			5655-N21	* * *	STATE	DISABLED	0
zSecure Alert		RACF			5655-N21	* * *	STATE	DISABLED	0
zSecure QRadar		ACF2			5655-AD8	* * *	STATE	DISABLED	0
zSecure QRadar		RACF			5655-AD8	* * *	STATE	DISABLED	0
zSecure QRadar		Top Secret			5655-AD8	* * *	STATE	DISABLED	0
zSecure Toolkit		*			5655-N18	* * *	STATE	DISABLED	0
zSecure Verifier		*			5655-N19	* * *	STATE	DISABLED	0
zSecure Visual		*			5655-N20	* * *	STATE	DISABLED	0
IBM APP DLIV FND		*			5655-AC6	* * *	STATE	DISABLED	0
IBM APP DLIV FND		FILE-MANAGER			5655-AC6	* * *	STATE	ENABLED	0
IBM IDZ		*			5724-T07	* * *	STATE	DISABLED	0
IBM IDZ EE		*			5655-AC5	* * *	STATE	ENABLED	0
IBM Wazi Code		*			5900-A8N	* * *	STATE	ENABLED	0

Unit Control Blocks (UCB)

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF UCB DISPLAY RS22 RS22 ONLINE

COMMAND INPUT ==> PREFIX=** DEST=(ALL) OWNER=** SYSNAME=

NP	UNIT	DevType	VolSer	DevClass	Status	SMS	EAV	UCB	UCBPDATA	UCBCMEXT	UCBType	Paths
05BE	3490			TAPE	ONLINE	NO	NO	00F34438	00F34410	02B80D10	45048081	73
05BF	3490			TAPE	ONLINE	NO	NO	00F34558	00F34530	02B80D40	45048081	73
05E0	3590			TAPE	ONLINE	NO	NO	00F36178	00F36150	02B81F0	47048083	66
05E1	3590			TAPE	ONLINE	NO	NO	00F36298	00F36270	02B81220	47048083	66
05E2	3590			TAPE	ONLINE	NO	NO	00F36388	00F36390	02B81250	47048083	66
05E3	3590			TAPE	ONLINE	NO	NO	00F364D8	00F364B0	02B81280	47048083	66
05E4	3590			TAPE	ONLINE	NO	NO	00F365F8	00F365D0	02B812B0	47048083	66
05E5	3590			TAPE	ONLINE	NO	NO	00F36718	00F366F0	02B812E0	47048083	66
05E6	3590			TAPE	ONLINE	NO	NO	00F36838	00F36810	02B81310	47048083	66
05E7	3590			TAPE	ONLINE	NO	NO	00F36958	00F36930	02B81340	47048083	66
5003	3390-3	XX5003		DASD	ONLINE	NO	NO	02662CE8	02662CC0	02B96E80	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
5004	3390-3	M2P105		DASD	ONLINE	YES	NO	02662D90	02662D68	02B96EB0	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
5007	3390-3	MTP103		DASD	ONLINE	YES	NO	02662F88	02662F60	02B96F40	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
500E	3390-3	MTP104		DASD	ONLINE	YES	NO	02663460	02663438	02B97090	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
500F	3390-3	MTP105		DASD	ONLINE	YES	NO	02663508	026634E0	02B970C0	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
502D	3390-3	IMP105		DASD	ONLINE	YES	NO	026648F8	026648D0	02B97660	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
5036	3390-9	F8P102		DASD	ONLINE	YES	NO	02664EE0	02664EB8	02B97810	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
5081	3390-9	R3P1D3		DASD	ONLINE	YES	NO	02668118	026680F0	02B98620	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
5090	3390-9	PG2302		DASD	ONLINE	NO	NO	02668AF0	02668AC8	02B988F0	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
5091	3390-9	PG2303		DASD	ONLINE	NO	NO	02668B98	02668B70	02B98920	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42
5092	3390-9	F8P104		DASD	ONLINE	YES	NO	02668C40	02668C18	02B98950	3030200F	32, 38, 3F, 40, 39, 3A, 41, 42

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Can be issued as primary command or invoked by "L" action on the EDT panel.

XCF Application Servers (XCFA)

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF XCF APPLICATION SERVERS RS22 RSPLEX01 LINE 200-220 (296) SCROLL ==> CSR

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

NP	SERVER	InstanceNum	System	Status	Requests	Description	FDI	JobName	ASID	A
	SYSXCF.IXCNOPAD	1	RS26	IDLE	3796854	XCF Note Pad Server Task	120	XCFAS	6	0
	SYSXCF.IXCREQ	1	RS26	WORKING	10	XCF Server for IXCREQ Requests	120	XCFAS	6	0
	CEA	1	RS27	IDLE	0	CEA Communications Server	120	CEA	27	0
	HSF.HSFIXC	1	RS27	IDLE	0	SDSF IXC SERVER	120	SDSFAUX	75	0
	HSF.HSFIXC	2	RS27	IDLE	0	SDSF IXC SERVER	120	SDSFAUX	75	0
	HSF.HSFIXC	3	RS27	IDLE	0	SDSF IXC SERVER	120	SDSFAUX	75	0
	HSF.HSFIXC	4	RS27	IDLE	0	SDSF IXC SERVER	120	SDSFAUX	75	0
	HSF.HSFIXC	5	RS27	IDLE	0	SDSF IXC SERVER	120	SDSFAUX	75	0
	HSF.HSFIXC	6	RS27	IDLE	0	SDSF IXC SERVER	120	SDSFAUX	75	0
	ICSF.OPERATOR.COMMAND.SERVER	1	RS27	IDLE	0	CLIENT SERVER TASK	120	CSF	51	0
	IZP.ZISXCF.IZPS009	11	RS27	IDLE	ver		120	IZPA009	1117	0
	IZP.ZISXCF.IZPS013	1	RS27	IDLE	ver		120	IZPA013	921	0
	IZP.ZISXCF.IZPS080	6	RS27	IDLE	ver		120	IZPA080	1120	0
	IZP.ZISXCF.IZPS081	6	RS27	IDLE	ver		120	IZPA081	1059	0
	IZP.ZISXCF.IZPS082	10	RS27	IDLE	ver		120	IZPA082	950	0
	IZP.ZISXCF.IZPS083	3	RS27	IDLE	ver		120	IZPA083	1089	0
	IZP.ZISXCF.KYKPROD	2	RS27	IDLE	154	Common XCF server	120	NWTSAXXP	277	0
	IZP.ZISXCF.NWTS200	13	RS27	IDLE	20	Common XCF server	120	NWTA200	1215	0
	IZP.ZISXCF.NWTS203	9	RS27	IDLE	191	Common XCF server	120	NWTA203	812	0
	IZP.ZISXCF.NWTS206	11	RS27	IDLE	13	Common XCF server	120	NWTA206	1224	0
	IZP.ZISXCF.NWTS207	2	RS27	IDLE	0	Common XCF server	120	NWTA207	945	0

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SDSF uses an XCF application server to provide cross-system data gathering.

XCF Signalling Paths (XCFP)

RS88 Standard

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF XCF SIGNALING PATHS RS22 RSPLEX01 LINE 1-21 (28)
 COMMAND INPUT ==> SCROLL ==> CSR

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

NP	STRNAME	RemoteSys	Status	Type	SignalCount	UnusedPath	RefuseCount	RetryLimit	RetryCount	RestartCount	MaxM
	IXC_DEFAULT		WORKING	PATHIN	0	48	0	100	0	0	1
	IXC_DEFAULT		WORKING	PATHOUT	0	48		100	0	0	1
	IXC_DEFAULT	RS21	WORKING	PATHIN	447290	41		100	0	0	3
	IXC_DEFAULT	RS21	WORKING	PATHOUT	542211	40		100	0	0	3
	IXC_DEFAULT	RS23	WORKING	PATHIN	8289279	8		720	0	0	3
	IXC_DEFAULT	RS23	WORKING	PATHOUT	8344496	9		100	0	0	4
	IXC_DEFAULT	RS25	WORKING	PATHIN	12664483	13		645	0	0	3
	IXC_DEFAULT	RS25	WORKING	PATHOUT	13119798	12		100	0	0	2
	IXC_DEFAULT	RS26	WORKING	PATHIN	3640819	17		632	0	0	3
	IXC_DEFAULT	RS26	WORKING	PATHOUT	4916753	16		100	0	0	2
	IXC_DEFAULT	RS27	WORKING	PATHIN	39231915	23		824	0	0	3
	IXC_DEFAULT	RS27	WORKING	PATHOUT	29244508	22		100	0	0	2
	IXC_DEFAULT	RS28	WORKING	PATHIN	13668207	31		631	0	0	3
	IXC_DEFAULT	RS28	WORKING	PATHOUT	14617940	30		100	0	0	2
	IXC_DEF8K		WORKING	PATHIN	0	48	0	100	0	0	1
	IXC_DEF8K		WORKING	PATHOUT	0	48		100	0	0	1
	IXC_DEF8K	RS21	WORKING	PATHIN	44625	12		100	0	0	3
	IXC_DEF8K	RS21	WORKING	PATHOUT	164886	13		100	0	0	2
	IXC_DEF8K	RS23	WORKING	PATHIN	3465596	10		169	0	0	3
	IXC_DEF8K	RS23	WORKING	PATHOUT	2192627	11		100	0	0	4
	IXC_DEF8K	RS25	WORKING	PATHIN	1837383	19		60	0	0	3

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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

Vista TN3270 Session C

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF HELD OUTPUT DISPLAY ALL CLASSES LINES 2,798,316
COMMAND INPUT ===>

PREFIX=TS* DEST=(ALL) OWNER=* SORT=End-Date//D End-	NP	JOBNAME	JobID	Owner	Max-RC	Tot-Rec
TS3306CB J0837388 TS3306 CC 0000 224						
TS3311TB J0837351 TS3311 CC 0000 191						
TS3311TB J0837336 TS3311 CC 0000 191						
TS5479CT J0837322 TS5479 CC 0000 2,653						
TS3311TB J0836374 TS3311 CC 0000 192						
TS8024 T0822456 TS8024 ABEND S522 1,226						
TS8024 T0822456 TS8024 ABEND S522 145						
TS3306CB J0837234 TS3306 CC 0000 224						
TS3306CB J0837150 TS3306 CC 0008 218						
TS3556 T0836397 TS3556 ABEND S222 174						
TS3311 T0836117 TS3311 ABEND S222 162						
TS5993CB J0837031 TS5993 CC 0000 64						
TS5993CB J0837029 TS5993 CC 0000 64						
TS5993BD J0837027 TS5993 CC 0000 320						
TS5993CD J0837025 TS5993 CC 0004 154						
TS5993CB J0837010 TS5993 CC 0000 64						
TS5993CB J0837007 TS5993 CC 0000 64						
TS5993BD J0837006 TS5993 CC 0000 320						
TS5993CD J0837004 TS5993 CC 0004 154						
TS6224 T0834864 TS6224 ABEND S622 1,413						
TS6224 T0834864 TS6224 ABEND S622 131						
TS5993CB J0836997 TS5993 CC 0000 64						
TS5993CB J0836996 TS5993 CC 0000 64						
TS5993BD J0836995 TS5993 CC 0000 64						
TS5993CD J0836994 TS5993 CC 0000 64						
TS5993CB J0836984 TS5993 CC 0000 64						
TS5993CB J0836982 TS5993 CC 0000 64						
TS5993CB J0836981 TS5993 CC 0000 64						
TS5993CB J0836980 TS5993 CC 0000 64						
TS5993CB J0836979 TS5993 CC 0000 64						
TS5993CB J0836977 TS5993 CC 0000 64						
TS5993CB J0836970 TS5993 CC 0000 64						
TS5993CB J0836969 TS5993 CC 0000 64						
TS5993CB J0836968 TS5993 CC 0000 64						
TS5993CB J0836967 TS5993 CC 0000 64						
TS5993BD J0836966 TS5993 CC 0000 320						
TS5993CD J0836965 TS5993 CC 0004 154						

Max-RC highlighting improves ability to see failing jobs immediately.

Vista TN3270 Session C

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF DA RS22 (ALL) PAG 0 CPU/L 63/ 24 LINE 1-21 (247)
COMMAND INPUT ===> SCROLL ==> CSR

PREFIX=TS* DEST=(ALL) OWNER=* SORT=CPU%D SYSNAME=*	NP	JOBNAME	StepName	ProcStep	JobID	Owner	C Pos DP Real Paging SIO	CPU% ASID ASIDX EXCP-Cnt	CPU-Time SR Status SysN
TS5465 ROCKPROC S22T0176 T0841931 TS5465 IN FE 438 0.00 258.82 43.85 1089 03F1 9530 0.00 RS22									
TS6412 ROCKPROC S25TCP06 T0841690 TS6412 LO FF 2126 0.00 8.00 2.87 1029 0405 1357 0.55 TI RS25									
TSTOME67 TSTOME67 S0670780 TSTOME67 IN EG 17T 0.00 0.00 0.14 713 02C9 11529738 1672.27 RS27									
TS31574 TS31574 S0697994 TS3157 IN EA 90T 0.00 244.00 0.12 430 01AE 111802583 985.76 RS25									
TSSHUTZB TSSHUTZB S0628990 TSSHUTZ IN EA 126T 0.00 122.66 0.12 466 0102 557868926 2532.90 RS25									
TS33004 TS33004 S0658083 TS3300 IN EA 95T 0.00 270.66 0.12 600 0258 230615547 1182.63 RS25									
TSZXBX6 TSZXBX6 S0828222 TSZXBX IN EC 147T 0.00 1.96 0.09 972 03CC 4592810 88.15 RS22									
TS3088B1 PUT J0832386 TS3088 A IN E8 626 0.00 0.00 0.07 115 0073 982 10.54 RS27									

Vista TN3270 Session C

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF SMS STORAGE GROUPS RS22 RS22 LINE 1-21 (325)
COMMAND INPUT ===> SCROLL ==> CSR

PREFIX=TS* DEST=(ALL) OWNER=* SYSNAME=*	NP	NAME	Type	Status	TotalMB Used%	FreeMB	LargestFreeMB	Volume	Online	Offline	Enabled	Disabled	Quiesced
AAAMP POOL ENABLED 2707 100.0 0 0 2 1 1 1 0 0													
ABPG1 POOL ENABLED 18827 0.11 10815 8114 2 2 0 2 0 0 0 0													
ACOSHARE POOL ENABLED 97436 90.28 9465 486 4 4 0 3 0 0 1 0													
ARYMPP POOL ENABLED 2707 100.0 0 0 2 1 1 1 0 0 0 0 0													
ARYSED1 COPYTARGET ENABLED 18828 36.66 6858 2685 4 4 0 4 0 0 0 0													
ARYSEL1 COPYTARGET ENABLED 5414 43.71 3047 1527 2 2 0 2 0 0 0 0													
ARYSE56 POOL ENABLED 0 0.00 0 0 0 4 0 4 0 0 0 0 0													
ARYSG05 POOL ENABLED 7216 9.74 6513 845 8 8 0 0 0 0 0 0 0													
ARYSG06 POOL ENABLED 14432 2.32 14986 881 16 16 0 16 0 0 0 0 0													
ARYSG07 POOL ENABLED 21656 4.53 28673 2631 8 8 0 8 0 0 0 0 0													
ARYSG08 POOL ENABLED 43312 0.77 42976 2685 16 16 0 16 0 0 0 0 0													
ARYSG13 POOL ENABLED 7216 21.49 5665 791 8 8 0 8 0 0 0 0 0													
ARYSG14 COPYTARGET ENABLED 7216 20.86 5768 828 8 8 0 8 0 0 0 0 0													
ARYSG15 POOL ENABLED 21656 89.82 2376 315 8 8 0 8 0 0 0 0 0													
ARYSG17 COPYTARGET ENABLED 21656 89.82 2377 313 8 8 0 8 0 0 0 0 0													
ARYSG21 POOL ENABLED 0 0.00 0 0 1 0 0 1 0 0 0 0 0													
ARYSG22 POOL ENABLED 13534 7.89 12466 7675 3 3 0 3 0 0 0 0													
ARYSG23 POOL ENABLED 16241 51.60 7868 4072 4 4 0 4 0 0 0 0													
ARYSG24 POOL ENABLED 8120 15.16 6889 6088 1 1 0 1 0 0 0 0													
ARYSG25 COPYTARGET ENABLED 16240 22.18 12658 6888 2 2 0 2 0 0 0 0													
ARYSG26 POOL ENABLED 32480 32.47 21932 5754 4 4 0 4 0 0 0 0													

0.1 11/14/22.318 02:07PM rs22 0.2 11/14/22.318 02:12PM rs22

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 00086 00001 / 00300 00027
LLA 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
```

Notable New Columns

- AD (Address space diagnosis)
 - RAX RAX address
 - RAX64 RAX64 address
- AS (Address space storage)
 - DMEM Dedicated memory
 - DMEMPCT Dedicated memory percent used
- FS (File systems)
 - SETUID SetUID can be issued (Yes/No)
- JES (JES2 subsystems)
 - CKPTLEV Checkpoint level
- JMO (Address space memory objects)
 - REAL Real storage frames backing memory object
 - AUX Auxiliary storage slots occupied by memory object
 - HASN Home ASID when memory object created (HVCOMM)
 - PASN Primary ASID when memory object created (HVCOMM)
- SYS (System information)
 - DMEM Dedicated memory
 - DMEMPCT Dedicated memory percent used
- TCB (Job tasks)
 - ACEE ACEE address for task

Notable New Action Characters

- WLM class panels
 - L Invoke DA with WLM class as filter
- DA (Active address spaces)
 - FJ Module fetch activity by job name
- APF (APF data sets) and LNK (link list data sets)
 - FD Module fetch activity for data set name
 - FJ Module fetch activity by job names for data set
- MEM (Memory display)
 - RC Perform “run-chain” for linked list

SDSF Main Menu

- New “SET MAIN” command
- SET MAIN TABLE
 - Traditional main menu as table of available commands
- SET MAIN DASH
 - Uses the SDSF dashboard as the main menu

Upgrade & Coexistence Considerations

- Toleration APARs for 2.4 and 2.5 :
 - PH51006 – can be installed at any time
 - Needed for sharing ISFPRMxx and data gatherer compatibility
- Migration considerations
 - None
- Coexistence support
 - SDSF 3.1 is compatible with SDSF 2.4 and SDSF 2.5 in the same sysplex

Installation & Configuration

- SDSF and SDSFAUX address spaces are mandatory
 - Copy ISF.SISFJCL(SDSF) and ISF.SISFJCL(SDSFAUX) to proclib
 - Copy ISF.SISFJCL(ISFPRM00) to parmlib
 - Add “S SDSF” to COMMNDxx
- SDSF class must be RACLISTed
- Users must be authorized to CONNECT to SDSF server
 - READ access to ISF.CONNECT.sysname in the SDSF class
- ISFPRMxx AUXSAF(FAILRC4/NOFAILRC4) dictates how to treat SAF “no decision” conditions
 - FAILRC4 converts “no decision” to “access denied” – this is the default
 - NOFAILRC4 converts “no decision” to “allow allowed” – useful during security migration
 - Previously NOFAILRC4 would “fall back” to any internal SDSF security rules – this is no longer the case

Summary

- SDSF Event Log
- Module Fetch Monitor
- RACF panels
- New SDSF primary displays
- Usability Enhancements