

# z/OS 3.2 IBM Education Assistant

Solution Name: SDSF

Solution Element(s): SDSF

July 2025



# Agenda

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

# Trademarks

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

# Objectives

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- Two new major functions introduced
  - pySDSF – Python interface to most common SDSF data
  - zFS profile store for SDSF settings and configuration
- New RACF log panel
- Other new SDSF panels
- Useability and other miscellaneous enhancements

# Overview

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

# Usage & Invocation

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

# Interactions & Dependencies

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- Software Dependencies
  - Python 3.13 for new support
- Hardware Dependencies
  - None
- Exploiters
  - None

# Upgrade & Coexistence Considerations

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- To exploit this solution, all systems in the Plex must be at the new z/OS level:
  - No
- List any toleration/coexistence APARs/PTFs.
  - None



# Installation & Configuration

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- New ISFPRMxx keywords on the GROUP statement required to enabled the zFS profile store facility
  - PROFILE(FILESYS | ISPF)
  - Default path used :
    - \$HOME/.isf/userid
- Python interface shipped in */usr/lpp/sdsf/python/dist/*

# pysdsf

Python interface to SDSF

# pysdsf – Python Interface to SDSF

- Easy to use python interface to SDSF
- Initial support for the following primary panels
  - AS, DA, H, I, O, ST
  - LOG (both SYSLOG and OPERLOG)
- Initial support for the following secondary panels
  - JDS (aka '?'), JS
- SYSOUT browse supported
- Operator commands also supported
  - Both generated by actions and freeform “/” style

# pysdsf – Installation And Setup

- pysdsf supplied as part of the standard SDSF SMP/E FMID
- Artifacts created via SMP/E APPLY
- Wheel file distributed in :  
*[/usr/lpp/sdsf/python/dist/](#)*
- Documentation distributed in :  
*[/usr/lpp/sdsf/python/doc](#)*

# pysdsf – Example Code

```
from pysdsf import Connection
from pysdsf.isfexception import ISFException

if __name__ == '__main__':
    connection = Connection()
    # Get all the jobs with prefix SDSF*
    try:
        status_result = connection.status_of_jobs(prefix='SDSF*',
                                                    owner='*')

        # Any row returned?
        if len(status_result):
            print('Job_Name Job_ID      Queue')
            for row in status_result:
                print(
                    f'{row["JNAME"].ljust(8)} {row["JOBID"].ljust(8)} '
                    f' {str(row["QUEUE"]).ljust(10)} '
                )
        else:
            print('Jobs with prefix SDSF* not found')
    except ISFException as e:
        print(f'Error occurred response is {e}')
    finally:
        connection.close()
```

Following slides will breakdown the statements to explain the general flow and look-and-feel of pysdsf

Multiple examples shipped with the product

# pysdsf – Breakdown Of Statements (1)

```
from pysdsf import Connection
from pysdsf.isfexception import ISFException
```

Import the pysdsf package and its allied custom exception

```
connection = Connection()
```

pysdsf uses the “connection” object to facilitate communication with the SDSF server

```
status_result = connection.status_of_jobs(prefix='SDSF*',
                                           owner='*')
```

Named SDSF functions can be passed parameters explicitly or set as a dictionary :

```
options = {
    'prefix':'SDSF*',
    'owner':'*'
}
```

```
status_result = connection.status_of_jobs(**options)
```

## pysdsf – Breakdown Of Statements (2)

```
if len(status_result):
    print('Job_Name Job_ID      Queue')
    for row in status_result:
        print(
            f'{row["JNAME"].ljust(8)} {row["JOBID"].ljust(8)} '
            f' {str(row["QUEUE"]).ljust(10)} ')
else:
    print('Jobs with prefix SDSF* not found')
```

Process each row of the results and access column data using the internal column name

Internal column names match SDSF REXX

```
except ISFException as e:
    print(f'Error occurred response is {e}')
```

Handle any exceptions from SDSF

```
connection.close()
```

Close the connection with SDSF

# pysdsf – Browse SYSOUT For Active Job

```
from pysdsf import Connection
from pysdsf.isfexception import ISFException

if __name__ == '__main__':
    connection = Connection()
    # Get all the jobs with prefix SDSFAUX*
    options = {
        'prefix': 'SDSFAUX*',
        'owner': '*'
    }
    try:
        da_result = connection.active_users(**options)
        # Any row returned?
        if len(da_result):
            for da_row in da_result:
                try:
                    print(f'Browse result for {da_row["JNAME"]}({da_row["JOBID"]})')
                    browse_result = da_result.browse(da_row, **options)
                    if browse_result:
                        for line in browse_result:
                            print(line)
                    else:
                        print('Nothing to browse')
                except ISFException as e:
                    print(e)
            else:
                print('Jobs with prefix SDSFAUX* not found')
        except ISFException as e:
            print(f'Error occurred response is {e}')
        finally:
            connection.close()
```

connection.active\_users = "DA"

Simple interface to browse SYSOUT for job.



# pysdsf – Issue Actions Against Jobname(s)

```
def run(job_name, max_rc) -> None:
    """
    Function to perform SDSF commands and action
    @param job_name: Job name pattern
    @param max_rc: Max rc to filter on
    @return:
    """
    connection = Connection()
    try:
        status_result = connection.status_of_jobs(prefix=job_name,
                                                  cols=['JNAME', 'JOBID', 'RETCODE'],
                                                  filter=f"RETCODE EQ 'CC {max_rc:04}'")

        # Any row returned?
        if len(status_result):
            for st_row in status_result:
                print(
                    f'Job {st_row["JNAME"]}({st_row["JOBID"]}) '
                    f'Max-RC {st_row["RETCODE"]} command issued')
                # Issue Purge action against row
                action_result = status_result.action('P', st_row)
                print('Command response below:')
                # Show any command response
                for response in action_result:
                    if response.find(' ISF0') == -1:
                        print(' ' + response)
            else:
                print(f'Job with name pattern "{job_name}" not found, no action taken')
        except ISFException:
            pass
        finally:
            connection.close()

if __name__ == '__main__':
    parser = argparse.ArgumentParser(description='Script to purge jobs for a given max cc')
    parser.add_argument('--jobname',
                        required=True,
                        type=str,
                        help='Job name pattern or job name')
    parser.add_argument('--maxrc',
                        required=True,
                        type=int,
                        help='Max return code to look at before purging job')
    args = parser.parse_args()
    run(args.jobname, args.maxrc)
```

Simple interface to issue action character against a row

Will result in z/OS operator command being issued and we can examine the response

# pysdsf – Scanning the SYSLOG/OPERLOG

```
import datetime
from pysdsf import Connection
from pysdsf.isfexception import ISFException

if __name__ == '__main__':
    # Connection for SDSF. Note: Does not invoke SDSF
    connection = Connection()
    # Get datetime for the time and date
    today: datetime = datetime.datetime.now()
    an_hour_ago: datetime = today - datetime.timedelta(hours=1)
    # Set the start and stop times to limit records
    # Set response line limit to limit number of line to return in response
    try:
        sys_log_result = connection.read_syslog(start_date=an_hour_ago.strftime("%m/%d/%Y"),
                                                start_time=an_hour_ago.strftime("%H:%M:%S"),
                                                stop_date=today.strftime("%m/%d/%Y"),
                                                stop_time=today.strftime("%H:%M:%S"),
                                                response_limit=100)

        # List any messages related to the read request

        for row in sys_log_result:
            print(row)
    except ISFException as e:
        print(e)
    finally:
        connection.close()
```

Simple interface to browse and process  
SYSLOG rows

# pysdsf – Initial Function List

- *active\_users* DA panel
- *address\_space\_memory* AS panel
- *browse* SYSOUT browse
- *held\_output* H panel
- *input\_queue* I panel
- *issue\_command* “/” facility
- *output\_queue* O panel
- *read\_syslog/read\_operlog* LOG panel (SYSLOG/OPERLOG)
- *status\_of\_jobs* ST panel

# SDSF Profile Data In zFS

# SDSF Profile Data in ISPF - Restrictions

- SDSF for z/OS 3.1 and prior releases use ISPF profile to store user settings, preferences including sort, arrange and filter criteria
- ISPF has a fixed limit of 64K for all data within a single xxxxPROF member of the ISPPROF data set
- SDSF users with large amounts of sort, arrange or filter criteria can exceed 64K in size causing errors when trying to VREPLACE/VPUT data into ISFPROF
- Using ISPF for profile data also means that other interfaces cannot retrieve stored user settings

# SDSF Profile Data in zFS

- SDSF for z/OS 3.2 introduces the ability to store user profile data in the z/OS UNIX file system
  - Removes the 64K data limit constraint
  - Makes profile data available to non-ISPF interfaces
- Profile data stored as JSON documents
- Positions SDSF to provide further enhancements in later releases based on the JSON document profile store

# SDSF Profile Data in zFS Implementation

- New SDSF group keyword “PROFILE”
  - ISPF                      Use legacy ISPF profile (default)
  - FILESYS                Use z/OS UNIX file system
- Profile data stored in the “.isf” directory in user home directory
- New SDSF group keyword “PROFILEPATH”
  - Specifies any additional directory path appended after “.isf”
  - Default is null
- Invocation screen name appended to directory name if not equal to “SDSF”
  - Allows users to have different profile stores for fastpath SDSF invocations from places like the ISPF command table

# SDSF Profile Data in zFS Migration

- SDSF profile path will be created if does not exist and any existing ISPF profile settings will be automatically migrated to new JSON format
  - Users can re-migrate by deleting the “.isf” directory and re-invoking SDSF
- Once the SDSF profile path is created, any existing or updated ISPF profile settings will be ignored
  - Data will not be saved to ISPF profile members after migration
- Important to note if sharing SDSF ISFPROF members with downlevel systems
  - SDSF for z/OS 3.1 and below will have no knowledge of profile data in the profile path filesystem
  - Some customers might postpone using FILESYS profiles until all members in sysplex are at least z/OS 3.2



# SDSF Profile Data Considerations

- SDSF users should not edit the JSON documents in the “.isf” profile directory
- Any malformed or invalid JSON data encountered during initialization will cause SDSF to discard all profile path information and fall back to using default settings

# RACF Log

# RACF Log Panel (1)

- Provides a summary of recent logged RACF activity
  - Includes failures and logged access for traditional resources as well as certain z/OS UNIX information
- Uses the SDSF event log architecture to provide the data
  - SMF record type 80 contents used to populate panel entries
- Drill down to the OPERLOG from row on RLOG panel using “L” action
  - Saves hunting OPERLOG for ICH408I messages
- Direct access to profile information and access list using “LP” and “LA” actions
- RLOG panel can be filtered using FEATENT statements in similar fashion to ELOG
  - New categories of “SAF”, “SAF\_CMD” and “SAF\_UNIX”

# RACF Log Panel (2)

RS21

File Edit Font Transfer Macro Options Window Help

12345

PA1

A B C ?

Display Filter View Print Options Search Help

SDSF RACF LOG RS21 (ALL) ACTIVE ALL LINE 105-125 (896)

COMMAND INPUT ==> SCROLL ==> CSR

PREFIX=\* DEST=(ALL) OWNER=PDSCOT SYSNAME=\* FILTERS=1

NP	USERID	SysName	Date	Intent	Allowed	Result	Class	Name	Profile	
	PDZTEAM	RS21	2024/11/19	17:01:02.46	-w-	r--	DENIED	FSOBJ	FACCESS	
	TSDXN	RS21	2024/11/19	15:38:19.01	r--	---	DENIED	DIRACC	DACCESS	
	TSDXN	RS21	2024/11/19	15:38:19.01	r--	---	DENIED	DIRACC	DACCESS	
	TSDXN	RS21	2024/11/19	15:38:19.01	r--	---	DENIED	DIRACC	DACC	
	TSDXN	RS21	2024/11/19	15:38:19.01	r--	---	DENIED	DIRACC	DACC	
	PDKOVI	RS21	2024/11/19	14:49:57.18	-w-	r--	DENIED	FSOBJ	FACC	
	PDKOVI	RS21	2024/11/19	14:49:57.18	-w-	r--	DENIED	FSOBJ	FACCESS	
	PDKOVI	RS21	2024/11/19	14:49:57.18	-w-	r--	DENIED	FSOBJ	FACCESS	
	PDPWRES	RS21	2024/11/19	13:46:41.64			SUCCESS		ALTUSER	
	TS5485	RS21	2024/11/19	12:13:59.72	READ	NONE	DENIED	XFACILIT	ACCESS	CKG.**
	TS5485	RS21	2024/11/19	12:13:38.45	READ	NONE	DENIED	XFACILIT	ACCESS	CKG.**
	TS8839	RS21	2024/11/19	11:34:01.50	READ	READ	SUCCESS	DATASET	ACCESS	RSRTE.SLD*.**
	TS8839	RS21	2024/11/19	11:33:57.40	READ	READ	SUCCESS	DATASET	ACCESS	RSRTE.SLD*.**
	TS8839	RS21	2024/11/19	11:33:52.97	READ	READ	SUCCESS	DATASET	ACCESS	RSRTE.SLD*.**
	TS8839	RS21	2024/11/19	11:33:49.71	READ	READ	SUCCESS	DATASET	ACCESS	RSRTE.SLD*.**
	TS8839	RS21	2024/11/19	11:33:46.28	READ	READ	SUCCESS	DATASET	ACCESS	RSRTE.SLD*.**
	TS8839	RS21	2024/11/19	11:33:43.42	READ	READ	SUCCESS	DATASET	ACCESS	RSRTE.SLD*.**
	TS5485	RS21	2024/11/19	11:12:22.46	READ	NONE	DENIED	XFACILIT	ACCESS	CKG.**
	PDPWRES	RS21	2024/11/19	11:08:00.32			SUCCESS		ALTUSER	
	PDPWRES	RS21	2024/11/19	11:08:00.29			SUCCESS		ALTUSER	
	PDPWRES	RS21	2024/11/19	11:08:00.26			SUCCESS		ALTUSER	

Both traditional and z/OS UNIX access events are displayed

MA

0.1 11/21/24.326 12:32PM rs21

a 4,22

# RACF Log Panel - Detail

RS21

File Edit Font Transfer Macro Options Window Help

Show Columns Row 1 to 30 of 30

Command ==>

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

All values	Column width
Column	## Value
USERID	01 PDSCOT
SysName	01 RS21
Date	01 2024/12/04 09:52:03.641
Intent	01 UPDATE
Allowed	01 READ
Result	01 DENIED
Class	01 DATASET
Name	01 ACCESS
Profile	01 VENDOR.*.**
Warning	01 NO
Reason	01 PROFILE_DENIED
Resource	01 VENDOR.MXI62.PARMLIB
Volser	01 S1P110
UserName	01 ROB SCOTT
Owner	01 SYS1
JobName	01 PDSCOT
Category	01 SAF
Special	01 NO
Operations	01 NO
Auditor	01 NO
UserExit	01 NO
FailSoft	01 NO
Bypass	01 NO
Trusted	01 NO
Superuser	01 NO
SysFunc	01 NO
Type	01 SMF
Record	01 80
Subtype	01 2
SysLevel	01 z/OS 03.01.00 HBB77E0
***** Bottom of data *****	

MA 0.1 12/12/24.347 03:52PM

RS21

File Edit Font Transfer Macro Options Window Help

Show Columns Row 1 to 32 of 32

Command ==>

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

All values	Column width
Column	## Value
USERID	01 TSDXN
SysName	01 RS21
Date	01 2024/12/12 03:07:31.974
Intent	01 ---
Allowed	01 ---
Result	01 DENIED
Class	01 FSOBJ
Name	01 FACCESS
Warning	01 NO
Reason	01 ACCESS_DENIED
Resource	01 /rsusr/pyz/3.12.3/lib/python3.12/site-packages/easy-install.pth
AuditFunc	01 OPEN
UserName	01 DMITRY NIKOLAEV
JobName	01 TSDXNJ
Category	01 SAF_UNIX
Special	01 NO
Operations	01 NO
Auditor	01 NO
UserExit	01 NO
FailSoft	01 NO
Bypass	01 NO
Trusted	01 NO
Superuser	01 NO
SysFunc	01 NO
EUID	01 5344
EGid	01 200
Type	01 SMF
Record	01 80
Subtype	01 30
AFC	01 19
	01 z/OS 03.01.00 HBB77E0
***** Bottom of data *****	

MA 0.1 12/12/24.347 03:54PM rs21 a 3,17

SDSF "Show" panel of both a traditional DATASET class event and a z/OS UNIX event.

# RACF Log Panel - Columns

- Columns include
  - Class, resource and profile
  - Jobname, User name, application name and owner
  - Access intent and allowed
  - Warning, special, operations, auditor, failsoft, bypass, trusted attributes in effect
  - Any z/OS UNIX EUID and EGID
  - Any log string data
  - Any SECLABEL
  - Names for any attempted RACF commands

# RACF Log Panel - Actions

- L
  - Invoke LOG (OPERLOG) panel and position to the date-stamp of the logged event
- LA
  - Show the RACF access list for the profile covering the resource in shown in the row
- LP
  - Browse the RACF profile covering the resource in shown in the row

# Other New SDSF Panels

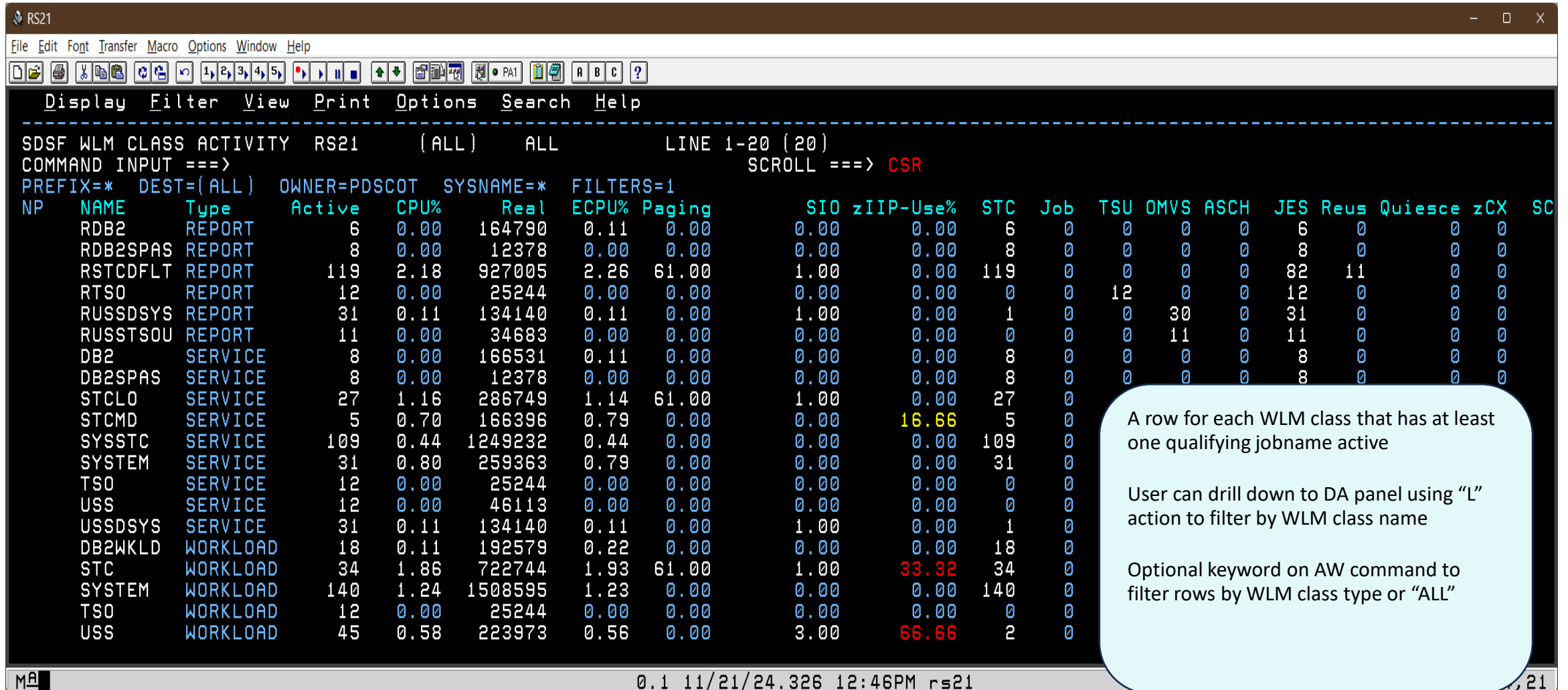


# New SDSF Panels

AW	Active Job Summary By WLM Class
CAT	Master And User Catalogs
CMO	64-bit Common Memory Objects
DEVS	Device Space
FXE	z/OS Function Registry
JRU	JES2 Resource Usage by Userid
MFP	z/OS UNIX Path Module Fetch
NAP	TCP/IP Activity Summary By Port

PST	z/OS UNIX Threads
RACD	RACF Data Sets
RACF	General RACF Information
RACR	RACF RRSF Nodes
SMFL	SMF Logstreams
SMFR	SMF Real Time Resources
VTOC	DASD Volume Table Of Contents

# AW Panel – Address Space Summary By WLM Class



RS21

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF WLM CLASS ACTIVITY RS21 (ALL) ALL LINE 1-20 (20)  
COMMAND INPUT ==> SCROLL ==> CSR

PREFIX=\* DEST=(ALL) OWNER=PDSCOT SYSNAME=\* FILTERS=1

NP	NAME	Type	Active	CPU%	Real	ECPU%	Paging	SIO	zIIP-Use%	STC	Job	TSU	OMVS	ASCH	JES	Reus	Quiesce	zCX	SC
	RDB2	REPORT	6	0.00	164790	0.11	0.00	0.00	0.00	6	0	0	0	0	6	0	0	0	
	RDB2SPAS	REPORT	8	0.00	12378	0.00	0.00	0.00	0.00	8	0	0	0	0	8	0	0	0	
	RSTCDFLT	REPORT	119	2.18	927005	2.26	61.00	1.00	0.00	119	0	0	0	0	82	11	0	0	
	RTSO	REPORT	12	0.00	25244	0.00	0.00	0.00	0.00	0	0	12	0	0	12	0	0	0	
	RUSSDSYS	REPORT	31	0.11	134140	0.11	0.00	1.00	0.00	1	0	0	30	0	31	0	0	0	
	RUSSTSO	REPORT	11	0.00	34683	0.00	0.00	0.00	0.00	0	0	0	11	0	11	0	0	0	
	DB2	SERVICE	8	0.00	166531	0.11	0.00	0.00	0.00	8	0	0	0	0	8	0	0	0	
	DB2SPAS	SERVICE	8	0.00	12378	0.00	0.00	0.00	0.00	8	0	0	0	0	8	0	0	0	
	STCLO	SERVICE	27	1.16	286749	1.14	61.00	1.00	0.00	27	0								
	STCMD	SERVICE	5	0.70	166396	0.79	0.00	0.00	16.66	5	0								
	SYSSTC	SERVICE	109	0.44	1249232	0.44	0.00	0.00	0.00	109	0								
	SYSTEM	SERVICE	31	0.80	259363	0.79	0.00	0.00	0.00	31	0								
	TSO	SERVICE	12	0.00	25244	0.00	0.00	0.00	0.00	0	0								
	USS	SERVICE	12	0.00	46113	0.00	0.00	0.00	0.00	0	0								
	USSDSYS	SERVICE	31	0.11	134140	0.11	0.00	1.00	0.00	1	0								
	DB2WKLD	WORKLOAD	18	0.11	192579	0.22	0.00	0.00	0.00	18	0								
	STC	WORKLOAD	34	1.86	722744	1.93	61.00	1.00	33.32	34	0								
	SYSTEM	WORKLOAD	140	1.24	1508595	1.23	0.00	0.00	0.00	140	0								
	TSO	WORKLOAD	12	0.00	25244	0.00	0.00	0.00	0.00	0	0								
	USS	WORKLOAD	45	0.58	223973	0.56	0.00	3.00	66.66	2	0								

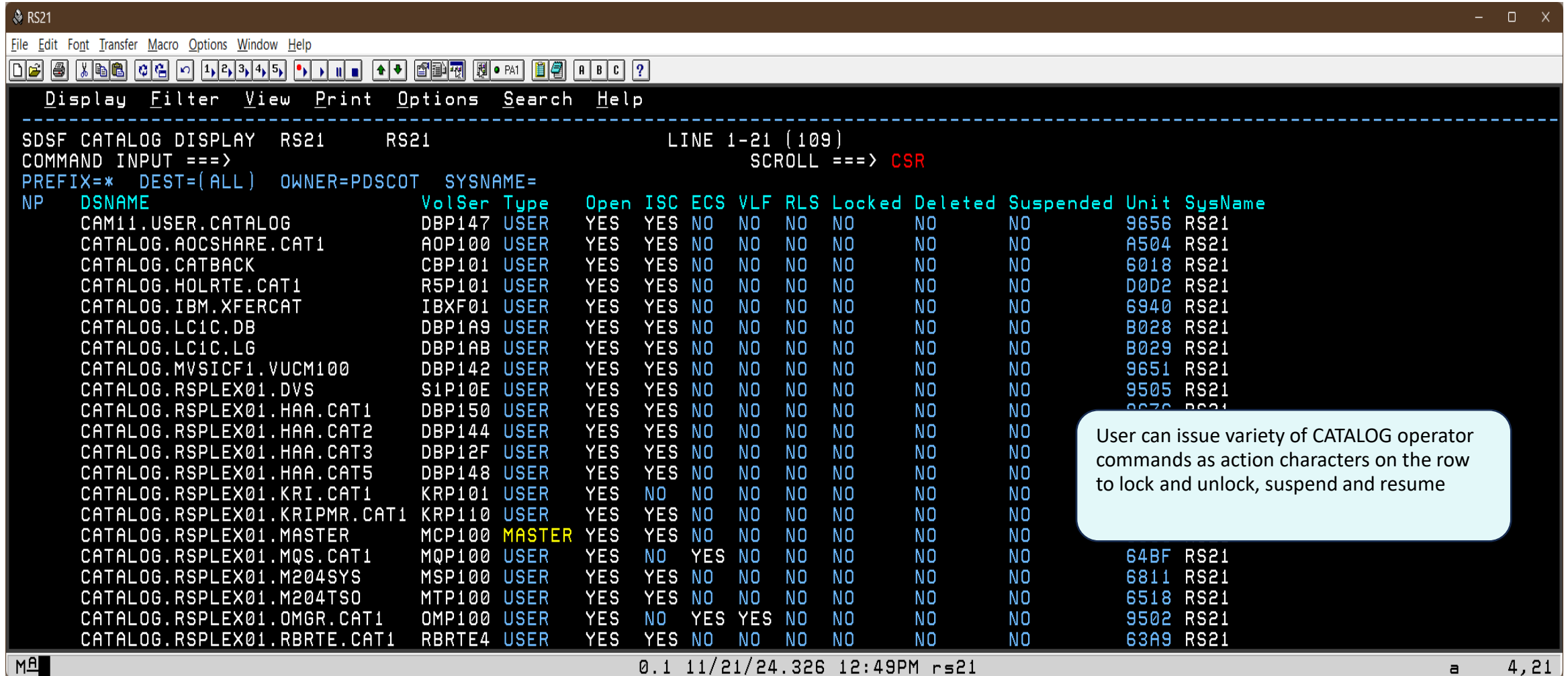
MA 0.1 11/21/24.326 12:46PM rs21 ,21

A row for each WLM class that has at least one qualifying jobname active

User can drill down to DA panel using "L" action to filter by WLM class name

Optional keyword on AW command to filter rows by WLM class type or "ALL"

# CAT Panel – Master and User Catalogs



The screenshot displays the RS21 CAT Panel interface. At the top, there is a menu bar with options: File, Edit, Font, Transfer, Macro, Options, Window, and Help. Below the menu bar is a toolbar with various icons for file operations and editing. The main display area shows the command 'SDSF CATALOG DISPLAY RS21 RS21' and the output of the command, which is a list of catalogs and their attributes. The output is formatted as a table with columns: NP, DSNAME, VolSer, Type, Open, ISC, ECS, VLF, RLS, Locked, Deleted, Suspended, Unit, and SysName. The table lists 21 catalogs, including CAM11.USER.CATALOG, CATALOG.AOC SHARE.CAT1, CATALOG.CATBACK, CATALOG.HOLRTE.CAT1, CATALOG.IBM.XFERCAT, CATALOG.LC1C.DB, CATALOG.LC1C.LG, CATALOG.MVSICF1.VUCM100, CATALOG.RSPLEX01.DVS, CATALOG.RSPLEX01.HAA.CAT1, CATALOG.RSPLEX01.HAA.CAT2, CATALOG.RSPLEX01.HAA.CAT3, CATALOG.RSPLEX01.HAA.CAT5, CATALOG.RSPLEX01.KRI.CAT1, CATALOG.RSPLEX01.KRIPMR.CAT1, CATALOG.RSPLEX01.MASTER, CATALOG.RSPLEX01.MQS.CAT1, CATALOG.RSPLEX01.M204SYS, CATALOG.RSPLEX01.M204TSO, CATALOG.RSPLEX01.OMGR.CAT1, and CATALOG.RSPLEX01.RBRTE.CAT1. The 'Type' column shows 'USER' for most catalogs, 'MASTER' for CATALOG.RSPLEX01.MASTER, and 'USER' for CATALOG.RSPLEX01.M204SYS, CATALOG.RSPLEX01.M204TSO, CATALOG.RSPLEX01.OMGR.CAT1, and CATALOG.RSPLEX01.RBRTE.CAT1. The 'Open' column shows 'YES' for all catalogs. The 'ISC' column shows 'YES' for CATALOG.AOC SHARE.CAT1, CATALOG.HOLRTE.CAT1, CATALOG.IBM.XFERCAT, CATALOG.LC1C.DB, CATALOG.LC1C.LG, CATALOG.RSPLEX01.DVS, CATALOG.RSPLEX01.HAA.CAT1, CATALOG.RSPLEX01.HAA.CAT2, CATALOG.RSPLEX01.HAA.CAT3, CATALOG.RSPLEX01.HAA.CAT5, CATALOG.RSPLEX01.KRI.CAT1, CATALOG.RSPLEX01.KRIPMR.CAT1, CATALOG.RSPLEX01.MASTER, CATALOG.RSPLEX01.MQS.CAT1, CATALOG.RSPLEX01.M204SYS, CATALOG.RSPLEX01.M204TSO, CATALOG.RSPLEX01.OMGR.CAT1, and CATALOG.RSPLEX01.RBRTE.CAT1. The 'ECS' column shows 'NO' for all catalogs. The 'VLF' column shows 'NO' for all catalogs. The 'RLS' column shows 'NO' for all catalogs. The 'Locked' column shows 'NO' for all catalogs. The 'Deleted' column shows 'NO' for all catalogs. The 'Suspended' column shows 'NO' for all catalogs. The 'Unit' column shows the unit number for each catalog. The 'SysName' column shows the system name for each catalog. A text box on the right side of the screen states: 'User can issue variety of CATALOG operator commands as action characters on the row to lock and unlock, suspend and resume'. The bottom status bar shows the date and time: 0.1 11/21/24.326 12:49PM rs21, and the page number: 4, 21.

SDSF CATALOG DISPLAY RS21 RS21 LINE 1-21 (109)  
COMMAND INPUT ==> SCROLL ==> CSR  
PREFIX=\* DEST=(ALL) OWNER=PDSCOT SYSNAME=  
NP DSNAME VolSer Type Open ISC ECS VLF RLS Locked Deleted Suspended Unit SysName  
CAM11.USER.CATALOG DBP147 USER YES YES NO NO NO NO NO NO NO 9656 RS21  
CATALOG.AOC SHARE.CAT1 AOP100 USER YES YES NO NO NO NO NO NO NO A504 RS21  
CATALOG.CATBACK CBP101 USER YES YES NO NO NO NO NO NO NO 6018 RS21  
CATALOG.HOLRTE.CAT1 R5P101 USER YES YES NO NO NO NO NO NO NO D0D2 RS21  
CATALOG.IBM.XFERCAT IBXF01 USER YES YES NO NO NO NO NO NO NO 6940 RS21  
CATALOG.LC1C.DB DBP1A9 USER YES YES NO NO NO NO NO NO NO B028 RS21  
CATALOG.LC1C.LG DBP1AB USER YES YES NO NO NO NO NO NO NO B029 RS21  
CATALOG.MVSICF1.VUCM100 DBP142 USER YES YES NO NO NO NO NO NO NO 9651 RS21  
CATALOG.RSPLEX01.DVS S1P10E USER YES YES NO NO NO NO NO NO NO 9505 RS21  
CATALOG.RSPLEX01.HAA.CAT1 DBP150 USER YES YES NO NO NO NO NO NO NO 8676 RS21  
CATALOG.RSPLEX01.HAA.CAT2 DBP144 USER YES YES NO NO NO NO NO NO NO  
CATALOG.RSPLEX01.HAA.CAT3 DBP12F USER YES YES NO NO NO NO NO NO NO  
CATALOG.RSPLEX01.HAA.CAT5 DBP148 USER YES YES NO NO NO NO NO NO NO  
CATALOG.RSPLEX01.KRI.CAT1 KRP101 USER YES NO NO NO NO NO NO NO NO  
CATALOG.RSPLEX01.KRIPMR.CAT1 KRP110 USER YES YES NO NO NO NO NO NO NO  
CATALOG.RSPLEX01.MASTER MCP100 MASTER YES YES NO NO NO NO NO NO NO  
CATALOG.RSPLEX01.MQS.CAT1 MQP100 USER YES NO YES NO NO NO NO NO NO 64BF RS21  
CATALOG.RSPLEX01.M204SYS MSP100 USER YES YES NO NO NO NO NO NO NO 6811 RS21  
CATALOG.RSPLEX01.M204TSO MTP100 USER YES YES NO NO NO NO NO NO NO 6518 RS21  
CATALOG.RSPLEX01.OMGR.CAT1 OMP100 USER YES NO YES YES NO NO NO NO NO 9502 RS21  
CATALOG.RSPLEX01.RBRTE.CAT1 RBRTE4 USER YES YES NO NO NO NO NO NO NO 63A9 RS21

User can issue variety of CATALOG operator commands as action characters on the row to lock and unlock, suspend and resume

0.1 11/21/24.326 12:49PM rs21 a 4, 21

# CMO Panel – 64-Bit Common Memory Objects

RS21

File Edit Font Transfer Macro Options Window Help

Display Filter

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SDSF COMMON MEMORY OBJECTS RS21 RS21 LINE 85-105 (301)  
COMMAND INPUT ==> SCROLL ==> CSR

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

NP	JOBNAME	Start-Address	End-Address	JobID	ASIDX	Size	Key	Guard	FProt	Large	CrDate	PgmRetAddr
	JES2AUX	000001EF_8B300000	000001EF_8B3FFFFF		002D	1M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8B400000	000001EF_8B4FFFFF		002D	1M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8B500000	000001EF_8BDFFFFF		002D	9M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8BE00000	000001EF_8C6FFFFF		002D	9M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8C700000	000001EF_8CFFFFF		002D	9M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8D000000	000001EF_8D8FFFFF		002D	9M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8D900000	000001EF_8E1FFFFF		002D	9M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8E200000	000001EF_8EAFFFFF		002D	9M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	JES2AUX	000001EF_8EB00000	000001EF_8F3FFFFF		002D	9M	1	NONE	YES	NO	2024/11/15 19:00:07	00000000_AEA
	*SYSTEM*	000001EF_8F400000	000001EF_8F4FFFFF			1M	0	NONE	NO			1A
	*SYSTEM*	000001EF_8F500000	000001EF_8F5FFFFF			1M	0	NONE	YES			14
	*SYSTEM*	000001EF_8F600000	000001EF_8F6FFFFF			1M	0	NONE	YES			14
	VTAM	000001EF_8F700000	000001EF_8FAFFFFF	S0428609	0023	4M	6	NONE	NO			04
	*SYSTEM*	000001EF_8FB00000	000001EF_8FBFFFFF			1M	6	NONE	YES			F2
	ZFS	000001EF_8FC00000	000001EF_8FCFFFFF		002C	1M	0	NONE	NO			D6
	ZFS	000001EF_8FD00000	000001EF_8FDFFFFF		002C	1M	0	NONE	NO			D6
	ZFS	000001EF_8FE00000	000001EF_8FEFFFFF		002C	1M	0	NONE	NO			D6
	ZFS	000001EF_8FF00000	000001EF_8FFFFFFF		002C	1M	0	NONE	NO			D6
	ZFS	000001EF_90000000	000001EF_900FFFFF		002C	1M	0	NONE	NO			D6
	ZFS	000001EF_90100000	000001EF_901FFFFF		002C	1M	0	NONE	NO			D6
	ZFS	000001EF_90200000	000001EF_902FFFFF		002C	1M	0	NONE	NO			D6

MA

0.1 11/21/24.326 12:51PM rs21

4,21

Every HV-COMMON memory object shown in ascending address sequence

Includes tracking information such as date-stamp and ASIDs in effect at creation

Panel also includes real frames and aux slots backing each memory object

RS21

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF DEVICE SPACE RS21 RS21 \* \* LINE 539-559 (3973)  
 COMMAND INPUT ==> SCROLL ==> CSR

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

NP	VOLSER	Unit	DevType	TotalMB	Used%	FreeMB	LargestFreeMB	UsedMB	EAV	SMS	StorGrp	SMSStatus	FragIndex	FreeDSCB	FreeExt
DDP191	B5C6	3390-9		26555	0.81	26340	26337	216	NO	YES	DDS9W1SG	ENABLED	0	149932	5
DDP192	B5C7	3390-9		26555	3.42	25646	23261	910	NO	YES	DDS9W1SG	ENABLED	26	149927	9
DDP193	B5C8	3390-9		26555	4.64	25323	25193	1233	NO	YES	DDS9W1SG	ENABLED	2	149926	8
DEP100	664C	3390-3		2707	77.69	604	240	2103	NO	YES	SGDEVEF	ENABLED	159	3720	17
DEP101	6645	3390-3		2707	83.33	452	113	2256	NO	YES	SGDEVEF	ENABLED	238	3720	18
DEP102	6480	3390-3		2707	0.20	2702	2701	6	NO	YES	SGDEVEF1	ENABLED	0	3746	2
DEP103	622F	3390-3		617	26.61	453	279	164	NO	YES	SGDEVEF	ENABLED	106	3738	6
DHP101	C050	3390-A		55034	13.36	47677	47053	7357	YES	YES	SGVB1BG1	ENABLED	6	142872	23
DHP102	C051	3390-A		55034	13.36	47677	47053	7357	YES	YES	SGVB1BG2	ENABLED			23
DHP103	C052	3390-A		55034	14.23	47201	47124	7834	YES	YES	SGVB1BG3	ENABLED			
DHP104	C053	3390-A		55034	14.21	47211	47134	7823	YES	YES	SGVB1BG4	ENABLED			
DHP105	C054	3390-A		55034	8.29	50468	49207	4566	YES	YES	SGZB1BG1	ENABLED			
DHP106	C055	3390-A		55034	8.22	50508	49209	4526	YES	YES	SGZB1BG1	ENABLED			
DIP100	919D	3390-9		8120	32.39	5489	5457	2631	NO	YES	BKPG0	ENABLED			
DIP101	919E	3390-9		8120	36.32	5171	2991	2950	NO	YES	BKPG0	ENABLED			
DIP102	57C0	3390-9		24359	12.52	21308	18005	3051	NO	YES	BKPG0	ENABLED			
DIP11F	611D	3390-9		8120	62.84	3017	2928	5103	NO	YES	BKPG3	ENABLED			
DIP110	62CA	3390-9		24359	19.81	19532	11518	4828	NO	YES	BKPG3	ENABLED			
DIP12A	9182	3390-9		8120	54.99	3655	3527	4466	NO	YES	BKPG3	ENABLED			
DIP12B	A509	3390-9		24359	21.53	19114	17556	5246	NO	YES	BKPG3	ENABLED			
DIP12C	A50A	3390-9		24359	29.81	17098	17002	7262	NO	YES	BKPG3	ENABLED			15

Both SMS and non-SMS DASD volumes shown

Statistics and status from VTOC displayed in various columns

Optional keywords can filter on volser and/or storage group patterns

0.1 11/21/24.326 01:32PM rs21 a 4,21

# FXE Panel – z/OS Function Registry

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RS88
File Edit Font Transfer Macro Options Window Help
[Icons: New, Open, Save, Print, Copy, Paste, Undo, Redo, Find, Replace, etc.]
Display Filter View Print Options Search Help
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SDSF FUNCTION REGISTRY RS88 RS88 LINE 1-14 (14)
COMMAND INPUT ==> SCROLL ==> CSR
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=
NP NAME Function ProdID ProdRel InstanceID Enabled Used U
z/OS Communications Server SNA - General HVT6320 03.02.00 VTAM YES YES
IBM Health Checker for z/OS IBM Health Checker for z/OS 5655-ZOS 03.01.00 HBB77E0 YES YES
JES2 JES2 Active Exits Bitmap 5655-ZOS 03.01.00 018-01S2 YES YES
JES2 JES2 Automatic Checkpoint Cycle Management 5655-ZOS 03.01.00 018-01S2 NO NO
JES2 JES2 Checkpoint on CF 5655-ZOS 03.01.00 018-01S2 NO NO
JES2 JES2 Exits 5655-ZOS 03.01.00 018-01S2 YES YES
JES2 JES2 Policy 5655-ZOS 03.01.00 018-01S2 NO NO
Runtime Diagnostics Runtime Diagnostics invoked by REST API 5655-ZOS 03.01.00 HBB77E0 YES NO
Runtime Diagnostics Runtime Diagnostics invoked internally by PFA 5655-ZOS 03.01.00 HBB77E0 YES NO
Runtime Diagnostics Runtime Diagnostics invoked via operator command 5655-ZOS 03.01.00 HBB77E0 YES NO
SDSF for z/OS SDFS Client Interface Summary 5665-ZOS 03.01.00 HBB77E0 YES YES
SDSF for z/OS SDFS Event Log (ELOG) 5665-ZOS 03.01.00 HBB77E0 YES YES
SDSF for z/OS SDFS Module Fetch Monitor (MFM) 5665-ZOS 03.01.00 HBB77E0 YES YES
SDSF for z/OS SDFS Server 5665-ZOS 03.01.00 HBB77E0 YES YES

SDSF now reports on and participates in the
function registry

User can "browse" a FXE entry using the "s"
action against the row
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# FXE Panel – z/OS Function Registry Browse

RS88

File Edit Font Transfer Macro Options Window Help

PA1

A B C ?

Display Filter View Print Options Search Help

SDSF FUNCTION ATTRIBUTES LIST

COMMAND INPUT ==>

LINE 0 COLUMNS 02- 132

SCROLL ==> CSR

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

Vendor Name : IBM

Vendor Description : International Business Machines Corporation

Product Name : SDSF for z/OS

Product Release : 03.02.00

Product ID : 5665-ZOS

Instance ID : HQX77F0

Product Description : SDSF (System Display and Search Facility) provides job and spool management along with system progr

Function Name : SDSF Server

Function Description : The SDSF servers provide data collection, configuration and security functions for its users

Function Enabled : YES

Function Used : YES

Function Telemetry : YES

Slot Path : VS(1),PS(68),FS(1)

Function Attributes :

Attribute Name : Timestamp of last SDSF server start

Attribute Value : (Local) 2025/02/03-04:13:09

Attribute Name : Timestamp of last SDSF server stop

Attribute Value :

Attribute Name : Last ISFPRMxx data set name

Attribute Value : DEVRTE.HSF.HSFA0302.SISFJCL

Attribute Name : Last ISFPRMxx member name

Attribute Value : ISFPRM88

The FXE browse shows all product and function attributes and their values

MA

0.1 02/03/25.034 10:34AM RS88

a 4,21

# JRU Panel – JES2 Resource By Userid (Owner)

Display Filter View Print Options Search Help

SDSF JES USER RESOURCE RS88 LINE 1-21 (32)  
COMMAND INPUT ==> SCROLL ==> CSR  
PREFIX=\* DEST=(ALL) OWNER=\* SORT=TG%/D SYSNAME=

NP	OWNER	TGUsed	TG%	JNumUsed	JNum%	JOEUsed	JOE%	BERTUsed	BERT%	Active	STC	TSU	Job	Jobgroup	APPC	Total
	INIT	480	9.05	300	3.00	240	3.00	120	0.60	60	300	0	0	0	0	17
	PDSCOT	249	4.69	9	0.09	12	0.09	3	0.01	1	0	8	1	0	0	17
	+++++++	216	4.07	137	1.37	117	1.37	36	0.18	24	47	0	0	0	90	17
	BPXAS	197	3.71	163	1.63	151	1.63	15	0.07	12	163	0	0	0	0	17
	SUBJCL	98	1.84	76	0.76	79	0.76	0	0.00	0	50	0	26	0	0	17
	PDZTEAM	84	1.58	35	0.35	36	0.35	0	0.00	0	0	0	35	0	0	17
	MXISTC	73	1.37	36	0.36	32	0.36	5	0.02	4	36	0	0	0	0	17
	+MASTER+	39	0.73	5	0.05	4	0.05	6	0.03	1						17
	SDSF	33	0.62	2	0.02	3	0.02	2	0.01	2						17
	RMF	26	0.49	11	0.11	12	0.11	3	0.01	2						17
	HZSPROC	23	0.43	5	0.05	4	0.05	2	0.01	1						17
	CSSMTP	21	0.39	5	0.05	12	0.05	1	0.00	1						17
	SMFDMP	18	0.33	9	0.09	12	0.09	0	0.00	0						17
	STCRSE	16	0.30	5	0.05	4	0.05	1	0.00	1						17
	TCPIP	16	0.30	5	0.05	4	0.05	1	0.00	1						17
	STCUSER	12	0.22	9	0.09	8	0.09	1	0.00	1						17
	ROOT	10	0.18	5	0.05	5	0.05	0	0.00	0						17
	SNMPQE	10	0.18	5	0.05	5	0.05	2	0.01	1						17
	PORTMAP	9	0.16	5	0.05	5	0.05	2	0.01	1						17
	CSFUSER	8	0.15	5	0.05	4	0.05	1	0.00	1						17
	PAGENT	8	0.15	5	0.05	4	0.05	1	0.00	1						17

MA 0.1 02/03/25.034 10:35AM RS88 a 4,21

Critical JES2 resources summarized by the owning userid

Point-and-shoot on OWNER will invoke SDSF "ST" panel filtered by the owning userid allowing actions like cancel/purge



# MFP Panel – Module Fetch UNIX Path

RS88

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

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SDSF FETCH PATHS RS88 RS88 ACTIVE LINE 1-21 (103)  
COMMAND INPUT ==> SCROLL ==> CSR  
PREFIX=\* DEST=(ALL) OWNER=\* SYSNAME=

NP	JOBNAME	Filename	Fetch	Size	AvgDASD	MaxDASD	LastDASD	Path
	IZUANG1	bbgzachk	1	000002D8	0.032	0.032	11/21/2024 09:37:25	/usr/lpp/zosmf/liberty/lib/nat
	IZUANG1	bbgzadrm	1	0003B7F8	2.689	2.689	11/21/2024 09:37:25	/usr/lpp/zosmf/liberty/lib/nat
	IZUANG1	bbgzafsm	1	000292E8	1.318	1.318	11/21/2024 09:37:25	/usr/lpp/zosmf/liberty/lib/nat
	IZUANG1	bbgzangl	1	00026B30	1.142	1.142	11/21/2024 09:37:25	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	bbgzsafm	1	000BD278	5.836	5.836	11/21/2024 09:37:47	/RP302A/usr/lpp/liberty_zos/24
	IZUSVR1	bbgzscfm	1	0005F810	3.106	3.106	11/21/2024 09:37:47	/RP302A/usr/lpp/liberty_zos/24
	IZUSVR1	bbgzsrv	1	00009668	0.050	0.050	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	bbgzufm	1	00053E80	3.053	3.053	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libicclib085.so	1	002C7000	87.657	87.657	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libinstrument.so	1	00014548	0.927	0.927	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjava.so	1	0003DB78	2.085	2.085	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjclse29.so	1	000DFAF0	12.433	12.433	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjgskit.so	1	0002B1F8	1.684	1.684	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjgsk8iccs_64.so	1	0004D000	3.061	3.061	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjimage.so	1	0000B8E8	0.133	0.133	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjli.so	1	00032B88	1.767	1.767	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjvm.so	1	00069B98	4.186	4.186	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjvm.so	1	0001F8E0	1.140	1.140	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libjzos.so	1	000A6038	15.982	15.982	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libj9a2e.so	1	0000DF28	0.627	0.627	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat
	IZUSVR1	libj9dmp29.so	1	00084590	4.056	4.056	11/21/2024 09:37:38	/usr/lpp/zosmf/liberty/lib/nat

Module fetch monitor enhanced to show fetches from z/OS UNIX paths

SDSF separates the filename from the lowest directory in the path to make it easier to distinguish the entry

Full path name up to 1024 characters can be seen on the SDSF "show" panel

MA 0.1 11/21/24.326 01:37PM RS88 a 4,21

# NAP Panel – Network Activity By Port Number

RS21

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF NETWORK PORTS RS21 RS21 LINE 1-21 (52)

COMMAND INPUT ==> SCROLL ==> CSR

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

NP	PORT	Type	JobName	Connect	IPv4	IPv6	BytesInRate	BytesOutRate	Closed	Listen	SynSent	SynRcvd	Establish	FinWait1	FinWait2	C
	21	TCP	FTPD1	1	0	1	0.00	0.00	0	1	0	0	0	0	0	
	22	TCP	SSHD3	6	5	1	0.00	0.00	0	2	0	0	4	0	0	
	23	TCP	TN3270	12	0	12	0.00	0.00	0	1	0	0	11	0	0	
	111	TCP	PORTMAP	1	1	0	0.00	0.00	0	1	0	0	0	0	0	
	111	UDP	PORTMAP	1	1	0	0.00	0.00	0	0	0	0	0	0	0	
	161	UDP	OSNMPD	1	0	1	0.00	0.00	0	0	0	0	0	0	0	
	162	UDP	SNMPQE	1	1	0	0.00	0.00	0	0	0	0	0	0	0	
	514	UDP	SYSLOGD	1	0	1	0.00	0.00	0	0	0	0	0	0	0	
	992	TCP	TN3270	1	0	1	0.00	0.00	0	1	0	0	0	0	0	
	1023	TCP	NFSC	2	0	2	0.00	0.00	0	0	0	0	2	0	0	
	1023	UDP	NFSC	1	0	1	0.00	0.00	0	0	0	0	0	0	0	
	1025	TCP	SNMPQE	1	1	0	0.00	0.00	0	1						
	1026	TCP	OSNMPD	1	0	1	0.00	0.00	0	1						
	1026	UDP	SNMPQE	1	1	0	0.00	0.00	0	0						
	1035	TCP	AZF#IN01	1	1	0	0.00	0.00	0	0						
	1036	TCP	GPMSEVE	1	0	1	0.00	0.00	0	1						
	1037	UDP	NFSS21	1	0	1	0.00	0.00	0	0						
	1038	UDP	NFSS21	1	1	0	0.00	0.00	0	0						
	1039	TCP	NFSC	1	0	1	0.00	0.00	0	0						
	1047	TCP	BLWRMF	1	0	1	0.07	0.13	0	0						
	1087	TCP	AXR03	1	1	0	0.00	0.00	0	1						

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Network activity summarized by port number

User can drill down to the NA panel filtered by port number using the “L” action on the row

# PST Panel – z/OS UNIX Process Threads

RS88

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SDSF UNIX THREADS RS88 RS88 002A BPX0INIT LINE 1-6 (6)

COMMAND INPUT ==> SCROLL ==> CSR

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

NP	THREADID	Status	State	SysCall	CPU-Time	WaitTime	TCB	PID	LatchWaitPID	LastSysCall
136A300000000000		FORK-NEW-PROCESS	.X...	1FRK	0.001	00:00:00	007FB188	1		1NOP,1NOP,1NOP,1NOP,1NOP
136A380000000001		CHILD-WAIT	.W...	1WAT	0.358	00:00:41	007E0E88	1		
136A700000000002		MVS-WAIT	.Y...		0.000	00:00:00	007E0C58	1		1NOP,1NOP,1NOP,1NOP,1NOP
136A780000000003		KERNEL-WAIT	.K...	1KIN	0.000	2:04:52:10	007DFAE8	1		1NOP,1NOP,1NOP,1NOP,1NOP
136A800000000004		FILE-SYSTEM-WAIT	.F...	1ACP	0.000	2:04:51:39	007DF840	1		1NOP,1NOP,1NOP,1NOP,1NOP
1371F80000000005		RUNNING	.R...		0.013	00:00:00	007E0AA8	1		1NOP,1NOP,1NOP,1NOP,1NOP

The "LT" action on the PS panel shows all threads for a specific z/OS UNIX process

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# RACD Panel – RACF Data Sets

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Display Filter

View Print Options Search Help

SDSF RACF DATA SETS

RS88 RS88

LINE 1-4 (4)

COMMAND INPUT ==>

SCROLL ==> CSR

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

NP	DSNAME	Type	Active	VSAM	Encrypted	Seq	VolSer	Unit	PlexComm	Buffers	Range
	RS88.RACF	PRIMARY	YES	NO	NO	1	MCPG00	649D	NOCOMM	255	
	RS88.RACF.BACKUP	BACKUP	YES	YES	NO	1	MCPG00	649D	NOCOMM		
	RS88.RACF.EXTRA	PRIMARY	YES	NO	NO	2	MCPG00	649D	NOCOMM	255	ZYXW
	RS88.RACF.EXTRA.BACKUP	BACKUP	YES	YES	NO	2	MCPG00	649D	NOCOMM		ZYXW

RACF data sets panel includes columns for whether data set is VSAM and encrypted

Any associated range table is also shown with character and hex values

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# RACF Panel – General RACF Information

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SDSF RACF INFORMATION RS88 RS88 LINE 1-1 (1)

COMMAND INPUT ==> SCROLL ==> CSR

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

NP NAME Parmlib ProtectAll DASDVOL TAPEVOL TAPEDSN Generic PwdAlg PwdCase PwdHist PwdMax PwdChang PhrChang RevInact CmdPref

RS88 RS OFF NO YES NO ENHANCE KDFAES UPPER 3 10 180 365 90 #

RS88

File Edit Font Transfer Macro Options Window Help

1 2 3 4 5

PA1

A B C ?

Display Filter View Print Options Search Help

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SDSF RACF INFORMATION RS88 RS88 LINE 1-1 (1)

COMMAND INPUT ==> SCROLL ==> CSR

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

NP NAME Inact CmdPref Subsys Dsname Volser RefName RCVT ICHDEX01 ICHPWX11 ICHRFX01

RS88 90 # RACF RS88.RACF MCPG00 IRRPRM 00FCD698 00000000 85C4F2E0 00000000

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General RACF information shown including known exit point addresses

The “LCK” action will show the IBM health checks for RACF

# RACR Panel – RACF RRSF Nodes

RS88

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SDSF RACF RRSF NODES RS88

LINE 1-6 (6)

COMMAND INPUT ==>

SCROLL ==> CSR

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

NP	NAME	Protocol	State	Type	HostName	HostAddr	Port	Listener	RuleName
RS78		TCP	ACTIVE	LOCAL	RS78.ROCKETSOFTWARE.COM	::FFFF:192.168.55.178	18136	INACTIVE	RRSFServer@Rule
RS79		TCP	ACTIVE	LOCAL	RS79.ROCKETSOFTWARE.COM	::FFFF:192.168.55.179	18136	INACTIVE	RRSFServer@Rule
RS85		TCP	ACTIVE	LOCAL	RS85.ROCKETSOFTWARE.COM	2620:117:10:4300::55:185	18136	INACTIVE	RRSFServer@Rule
RS86		TCP	ACTIVE	LOCAL	RS86.ROCKETSOFTWARE.COM	2620:117:10:4300::55:186	18136	INACTIVE	RRSFClient@Rule
RS87		TCP	ACTIVE	LOCAL	RS87.ROCKETSOFTWARE.COM	2620:117:10:4300::55:187	18136	INACTIVE	RRSFClient@Rule
RS88		TCP	ACTIVE	LOCAL	0.0.0.0	::FFFF:192.168.55.188	18136	ACTIVE	

All RRSF nodes are displayed including statistics about messages sent between them

Various actions against the row will issue the associated RRSF TARGET commands for the nodes

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# SMFL Panel – SMF Logstreams

RS89

File Edit Font Transfer Macro Options Window Help

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Display Filter View Print Options Search Help

SDSF SMF LOG STREAMS RS89 RS89 LINE 1-1 (1)

COMMAND INPUT ==> SCROLL ==> CSR

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

NP	NAME	Active	Connect	Cleanup	Default	Compress	UpdDate	BufSize	BufferInUse	BufMax	BufHWM
	IFASMF.SMFDFLT.RSPLEX0H	YES	YES	NO	YES	YES	00/00/0000 00:00:00	65532	48136	2147483T	48136

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All SMF logstreams shown including information about buffer size and usage

RS89

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SDSF SMF REAL TIME RESOURCES RS89 RS89 LINE 1-3 (3)

COMMAND INPUT ==> SCROLL ==> CSR

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

NP	NAME	Status	BufferInUse	BufMax	BufHWM	ActConn	Types
	IFASMF.INMEM.GROUPA	ACTIVE	10592443	524288T	10592443	0	0-125,127-255
	IFASMF.INMEM.GROUPB	ACTIVE	10592443	524288T	10592443	0	0-125,127-255
	IFASMF.INMEM.GROUPC	ACTIVE	10592443	524288T	10592443	0	0-125,127-255

All SMF real time resources shown including record types and buffer usage statistics

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# VTOC Panel – DASD Volume Table Of Contents

RS88													
File Edit Font Transfer Macro Options Window Help													
Display Filter View Print Options Search Help													
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SDSF VTOC DISPLAY RS88 R3P113 5506 LINE 43-63 (435)													
COMMAND INPUT ==> SCROLL ==> CSR													
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=													
NP	DSNAME	LoCyl	LoTrk	HiCyl	HiTrk	Ext	TotalExt	RelTrk	TotalTrk	DSOrg	RecFm	Lrecl	B
	RSRTE.RACF.CERTS.ZT25601.CA.PEM	00000030	05	00000030	09	1	1	725	5	PS	VB	84	
	RSRTE.CICSTS63.BETA05.SFF32.SCIZINST	00000030	0A	00000030	0C	1	1	730	3	PO	FB	80	
	RSRTE.CTS560.GA.ISV.CHANGES	00000030	0D	00000030	0E	1	1	733	2	PO-E	VB	240	
	RSRTE.ZOWE2160.SZWESAMP	00000031	00	00000031	0C	1	1	735	13	PO-E	FB	80	
	--FREE--	00000031	0D	00000031	0E	1	1	748	2			0	
	RSRTE.ZSECURE.CARLA.IMBED	00000032	00	00000032	0E	1	2	750	15	PO	FB	200	
	RSRTE.SM.CATALOG.MASTER	00000033	00	00000033	0E	1	1	765	15	PO	FB	133	
	RSRTE.CAI.ACF2R16.CAX1IMS	00000034	00	00000036	0E	1	1	780	45	PO	U	0	
	RSRTE.ZSECURE.CARLA.IMBED	00000037	00	00000037	0E	2	2	825	15	PO	FB	200	
	RSRTE.CTS610.GA.CICS.SDFHWSSX	00000038	00	00000038	0E	1	1	825	15	PO	FB	80	
	RSRTE.TS4671.REXX	00000039	00	00000039	0E	1	1	825	15	PO	FB	80	
	RSRTE.CTS520.GA.ISV.CHANGES	0000003A	00	0000003A	0E	1	1	825	4	PO-E	VB	240	
	--FREE--	0000003A	04	0000003A	0E	1	1	825	10			0	
	RSRTE.PDH0BS.ADUSERS.VAS.POSINV.D240214	0000003A	0E	0000003A	0E	1	1	825	1	PS	VB	255	
	RSRTE.PSP.APASORT.MANDATA2	0000003B	00	0000003B	0E	1	1	825	15	PS-E	VBS	32760	
	RSRTE.ZACS.JOBLIB	0000003C	00	0000003C	0E	1	1	825	20	PO	FB	80	
	RSRTE.CSQ.V940.BETA.SCSQMSGU	0000003D	05	0000003D	0E	1	1	825	6	PO-E	FB	80	
	--FREE--	0000003D	0B	0000003D	0E	1	1	825	4			0	
	RSRTE.DSN.VDB2.ALLDB2.BKUP.J20213	0000003E	00	0000003E	0E	1	1	825	15	PS	FB	130	
	RSRTE.LRS.VPS.V2R11.VPSCPT.DATA	0000003F	00	0000003F	0E	1	1	825	15	VS	U	0	
	RSRTE.ZARA30.MLPALIB	00000040	00	00000040	0E	1	1	825	15	PO	U	0	
-----													
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SDSF can now map a DASD volume VTOC

Each extent of a data set is shown (primary extents highlighted)

Free extents and the VTOC itself shown as special rows

# Useability Enhancements

# Action Prompt Panel (1)

- New concept of SDSF “control” action char of a single dot “.”
  - Used in a couple of new enhancements
  - Common action character across all tabular panels
- Using the characters “./” in ISPF against a row will now cause a pop-up panel showing all actions defined for the panel in a scrollable list
- User can select entry to apply the action to the row(s)
- No longer need SET ACTION ON to see available actions

## Action Prompt Panel (2)

Can be applied to block range as well as single row

Selection applied to all rows

# MGRP Panel - Main Menu Group (1)

- Groups SDSF commands by their associated group name
- Allows user to expand or collapse individual groups to show associated commands
- Expand/collapse status of each group saved in user profile
  - Use “.” to expand and “..” to collapse
- MGRP command can be issued anywhere within product
- Use SET MAIN GROUP command to have this as the default SDSF main menu

# MGRP Panel - Main Menu Group (2)

RS89

File Edit Font Transfer Macro Options Window Help

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SDSF MENU 3.2 RSPLEX0H RS89 LINE 1-21 (29)

COMMAND INPUT ==> SCROLL ==> CSR

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

NP	GROUP	Name	Description	Status
	Devices	<<-----	-----	6 of 6 panels available
	Jobs	<<-----	-----	6 of 6 panels available
	JES	<<-----	-----	18 of 19 panels available
	Log	<<-----	-----	5 of 5 panels available
	Measure	<<-----	-----	5 of 5 panels available
	Memory	>>-----	-----	5 of 5 panels available
	Memory	CMO	Common memory objects	
	Memory	CS	Common storage subpools	
	Memory	CSR	Common storage remaining	
	Memory	MEM	Memory contents	
	Memory	VMAP	Virtual storage map	
	Network	<<-----	-----	6 of 6 panels available
	Output	<<-----	-----	2 of 2 panels available
	OMVS	<<-----	-----	3 of 3 panels available
	Program	>>-----	-----	9 of 9 panels available
	Program	LPD	Link pack directory	
	Program	MFD	Module fetch data sets	
	Program	MFJ	Module fetch jobnames	
	Program	MFM	Module fetch statistics	
	Program	MFP	Module fetch paths	
	Program	PC	PC routines	

Both the "Memory" and "Program" groups have been expanded using the "." action

Status column shows the number of panels that user can use within the group

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# Summary

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- pySDSF
- SDSF Profile Data In zFS
- RACF Log Display
- New SDSF Panels
- Useability Enhancements