z/OS V2.5 IBM Education Assistant

Solution Name: SDSF

Solution Element(s): SDSF

August 2021

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Agenda

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

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Trademarks

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- Additional Trademarks:
  - None

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Objectives

- Architectural changes
- New SDSF panels
  - New primary panels
  - New secondary panels
  - New columns on existing displays
- New help and search interface
- Usability enhancements
- z/OSMF SDSF plug-in changes
- Installation and configuration
- Documentation and help

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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

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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

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Architectural Changes

- SDSF “SVC” removed
- SDSF only uses SAF for security
  - Significant upgrade actions required if customer still uses internal SDSF security
  - New SDSF Security Migration Guide manual to document steps required
    - SC27-4942-00
  - Rexx security migration tool “ISFACR” provided with sample JCL for security reporting

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New SDSF Primary Panels

- Primary panels
  - AD Address space diagnostics
  - CFD Coupling facility datasets
  - CS Common storage subpools
  - LLS Link list sets
  - MEM Address space memory
  - PC PC routines
  - SYSP System parameters
  - SVC SVC routines

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MEM Panel

- Shows memory for any address space or common storage
- Syntax :
  - MEM *address {asid} {sysname}*
  - Defaults to *address* = 0, *asid* = user address space (hex) and *sysname* = local system
  - Leading zeros can be omitted from address and asid
  - Underscore can be used to separate high-half and low-half of address
- Examples

```
MEM 07FCE8
```

Display the memory contents at address x'07FCE8' in your own address space on the local system.

```
MEM 50_48CA000 CD
```

Display the contents of storage within a 64-bit memory object owned by ASID x'00CD' starting at address x'00000050_0048CA000'.

```
MEM 01E00EAC 00AB SYSA
```

Display memory contents at address x'01E00EAC' in ASID x'00AB' on remote system SYSA.

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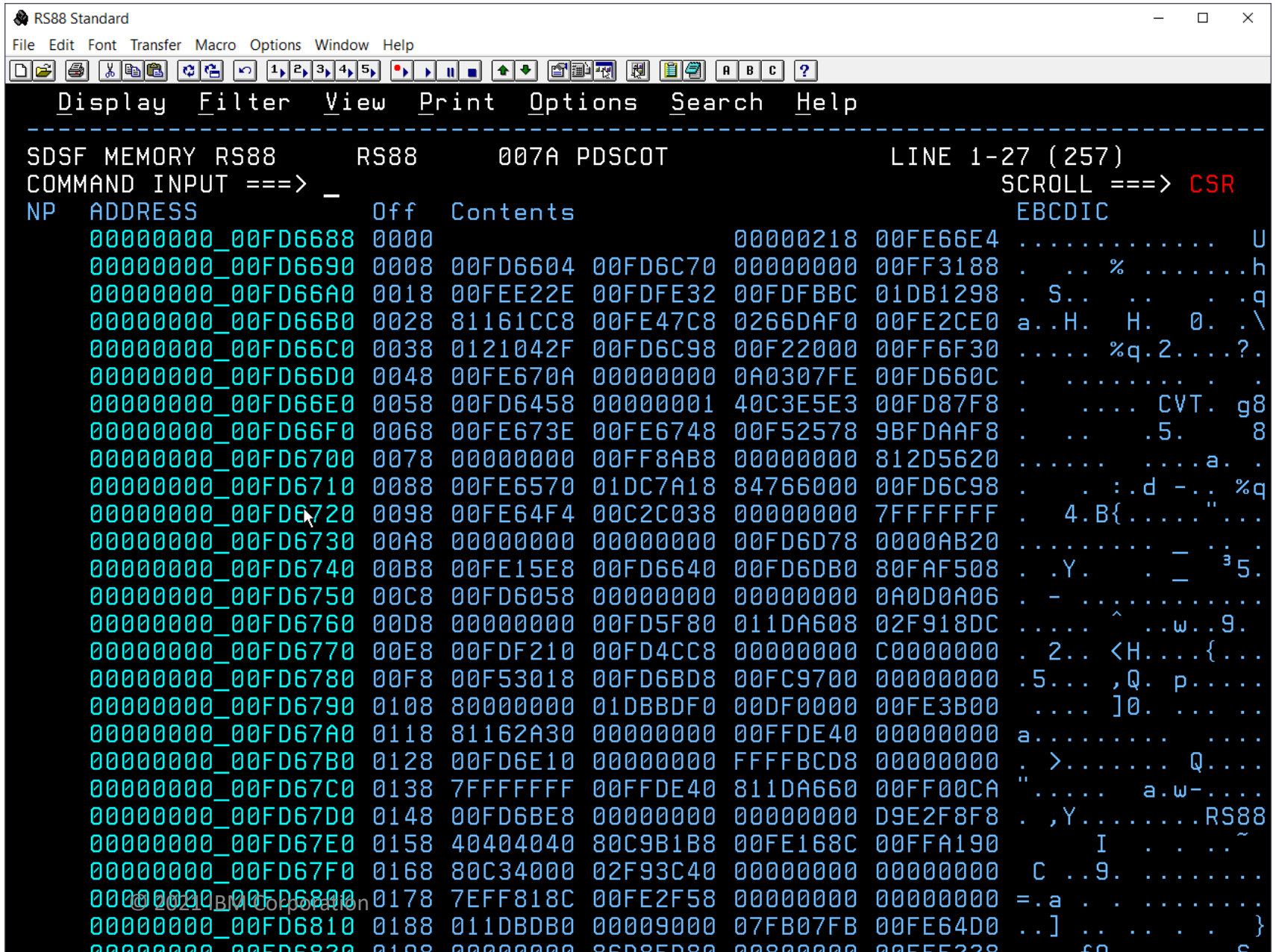
MEM Panel



Actions :

Dn Show memory at nth word of the “Contents” column (1-4) treating it as a 31bit address.

Gn Show memory at nth word of the “Contents” column (1-3) treating it as a 64bit address.

M Show memory mapped to a known structure

S Show memory starting at the value in the “Address” column

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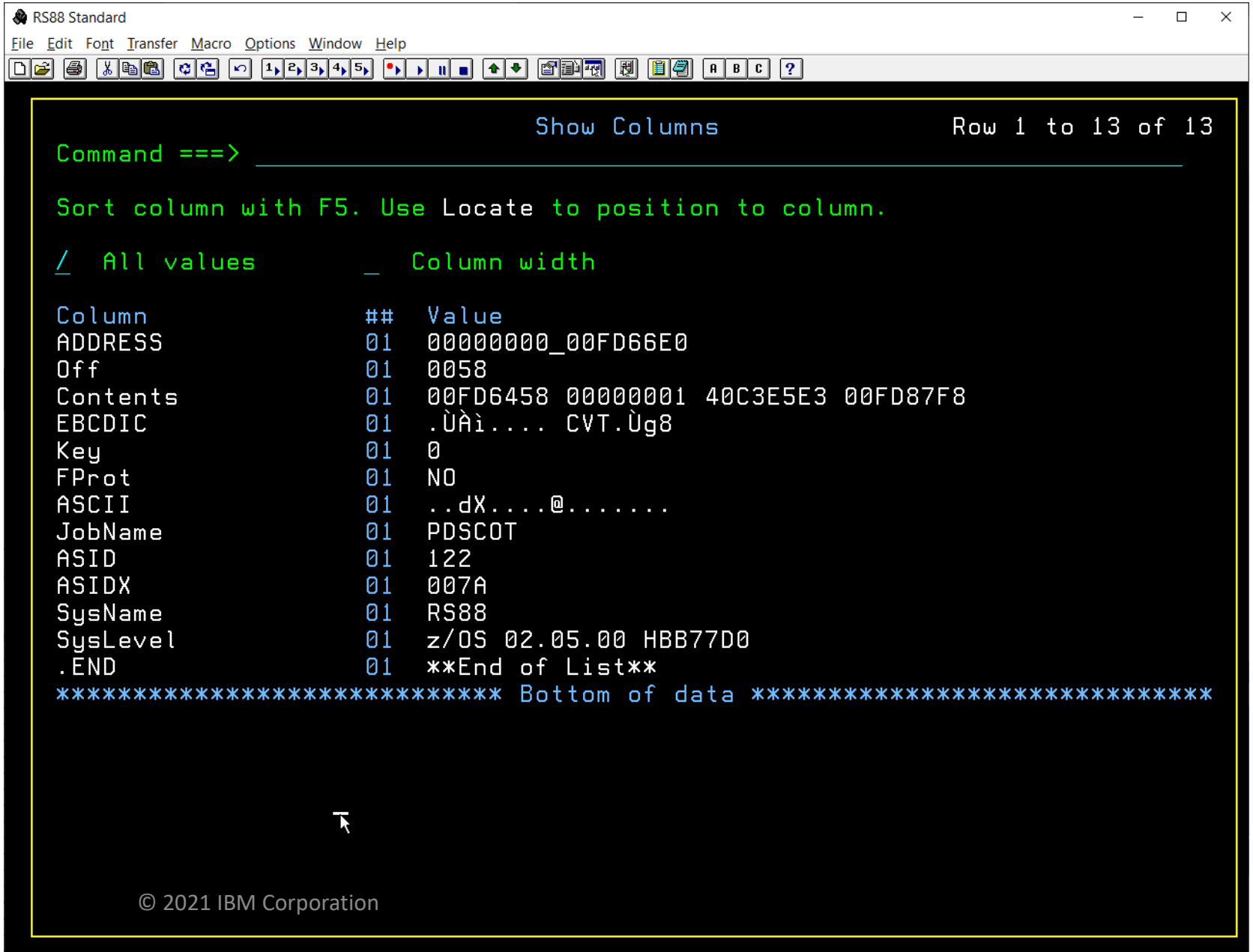
MEM Panel Columns



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MEM Panel Security

- Ability to show memory for address space protected by SAF profile in SDSF class
  - ISFJOB.STORAGE.*owner*.*jobname*.*sysname*
  - READ access required
  - Where owner cannot be derived (e.g. some system address spaces), SDSF uses "++++++++"
- When page has never been referenced, MEM might show "STORAGE SKIPPED" message and display the next valid storage contents
  - CONTROL access to ISFJOB.STORAGE.owner.jobname.sysname will allow SDSF to "touch" the target page to differentiate between unreferenced storage and unavailable storage.

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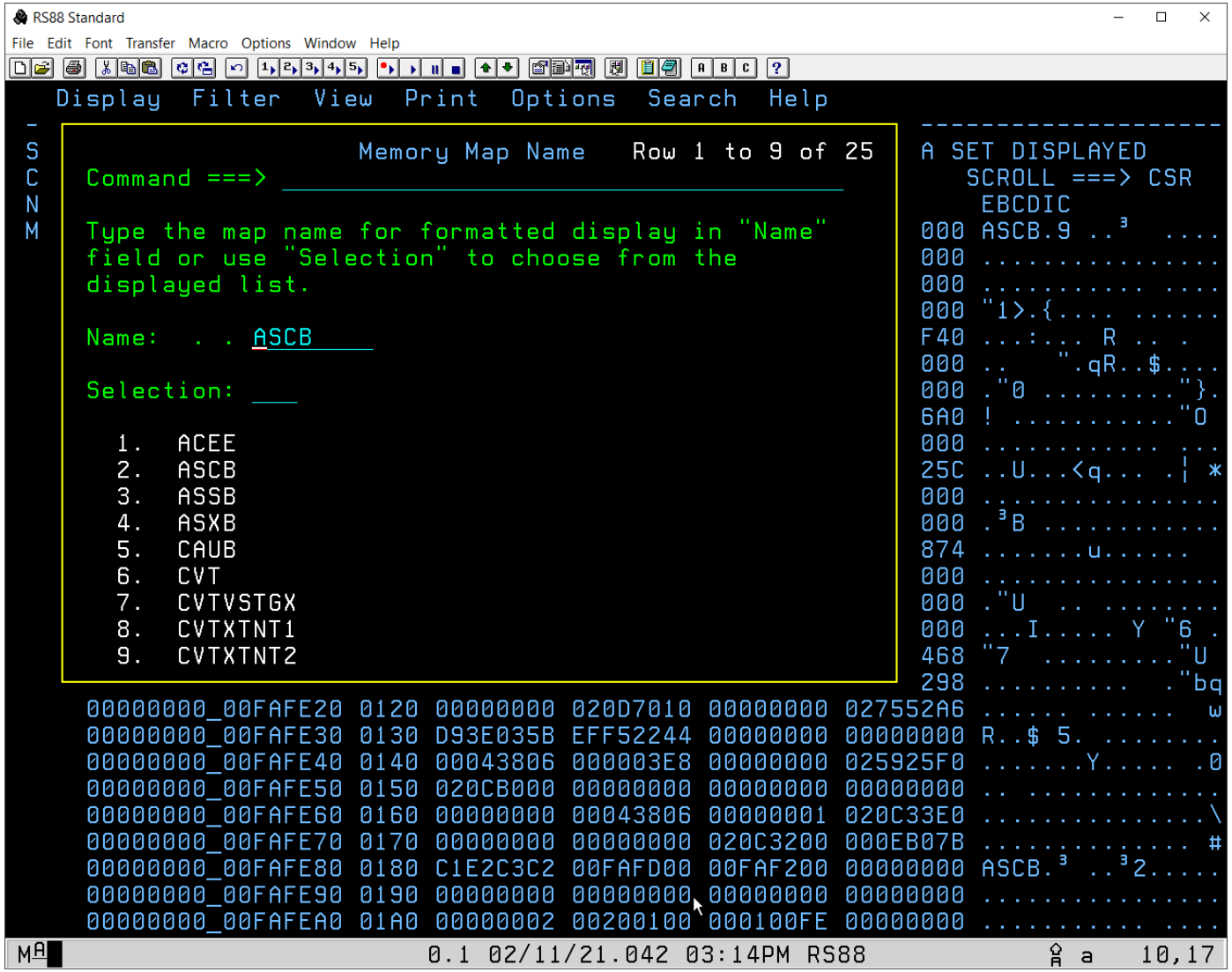
MEM Showing memory in structure format



Type “M” beside row that contains the start of the candidate structure

SDSF will examine up to 16 bytes of the storage for a known eye-catcher and if found prime the default structure name in the prompt panel

SDSF prompt panel shown

Select from scrollable list and press enter

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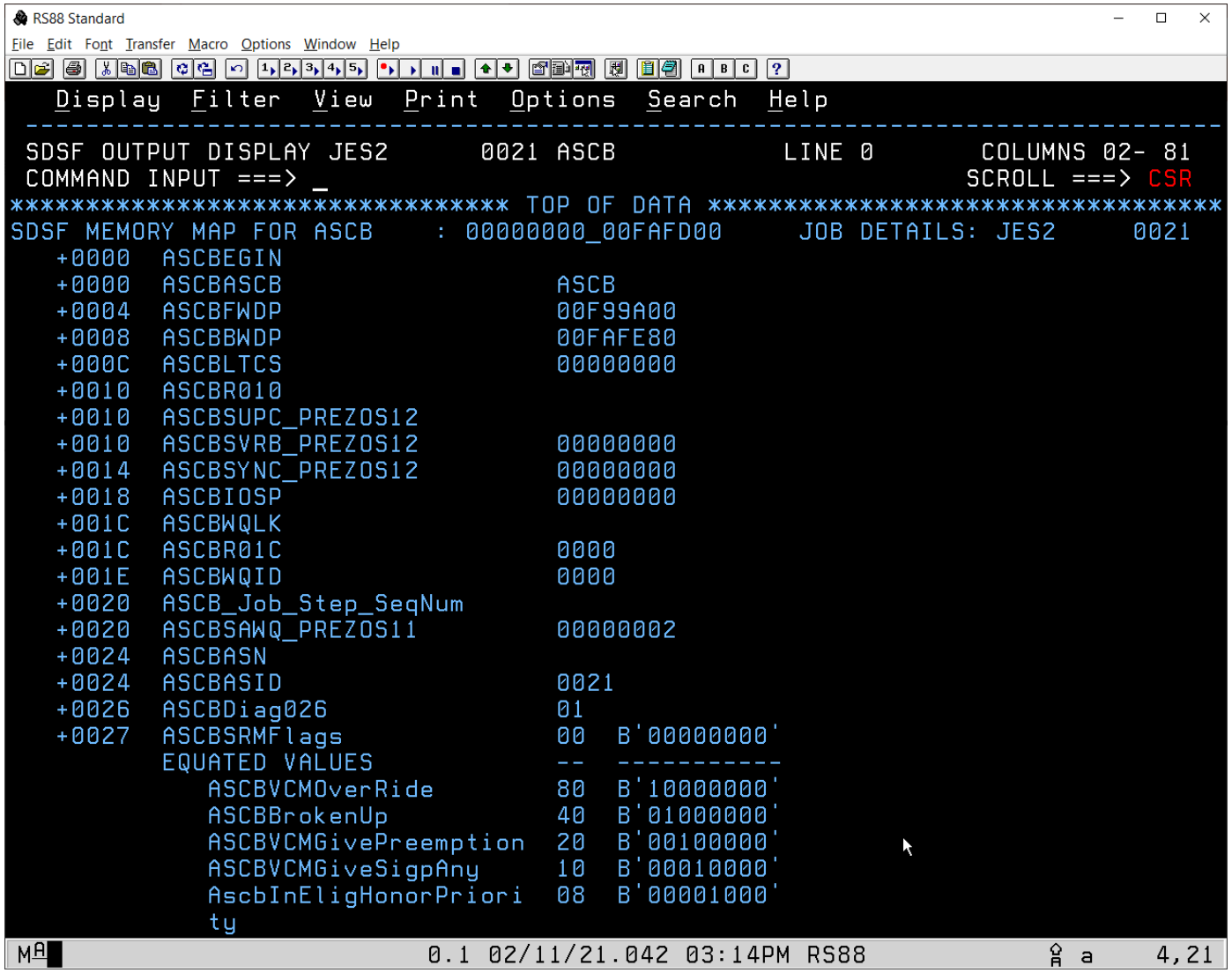
MEM Showing memory in structure format



Set PFKey to “MEMCSR”

Position your cursor over an address in the structure display and press the PFKey to invoke MEM using the address at the cursor.

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AD Panel

- Shows identification and diagnostic information about each active address space
- Intended as a launch pad for memory problem investigations
- Actions include storage related displays for the address space
  - Common storage usage
  - Private storage usage
  - Memory objects
- Important control block addresses for each address space shown and enabled for point-and-shoot to invoke the MEM panel

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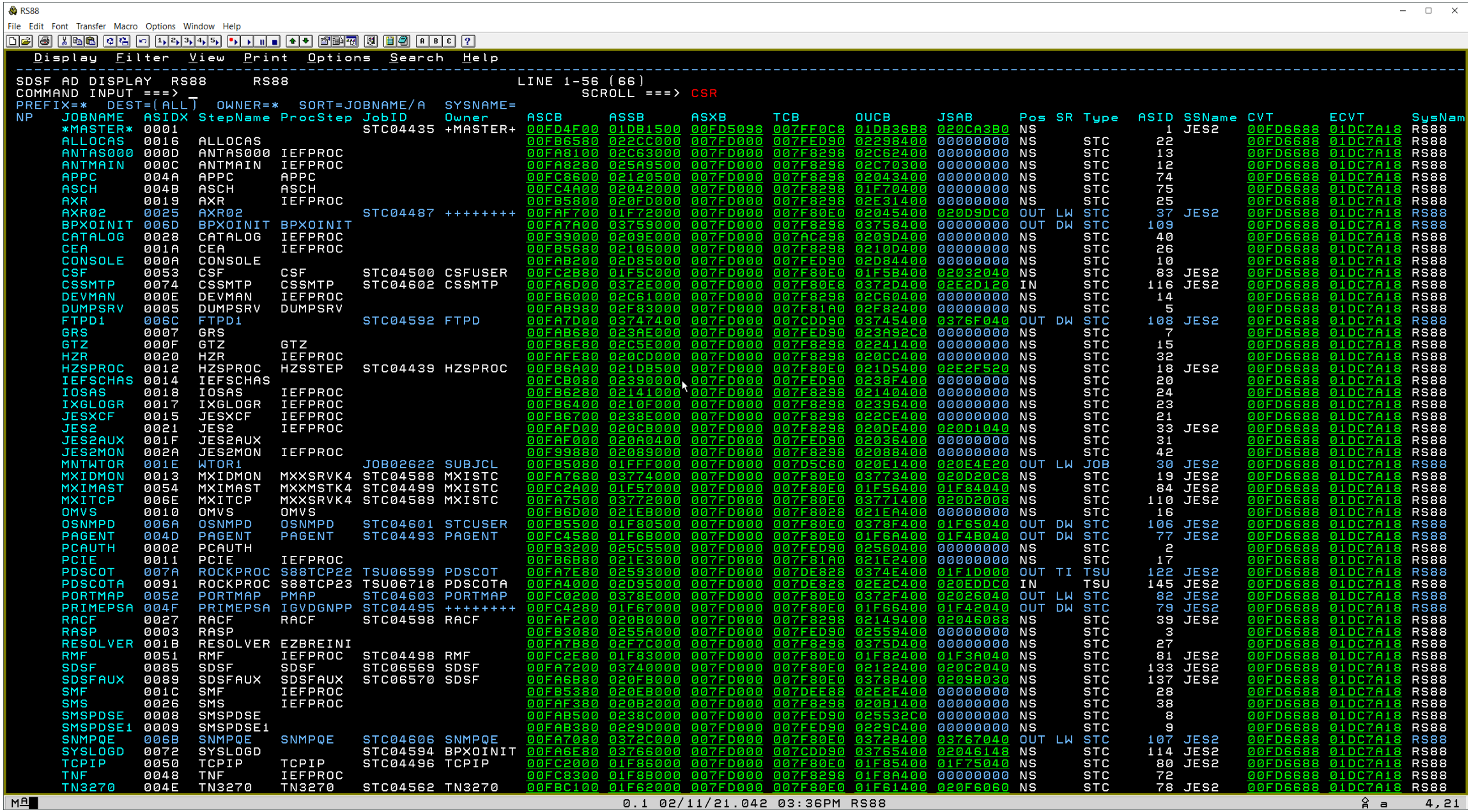
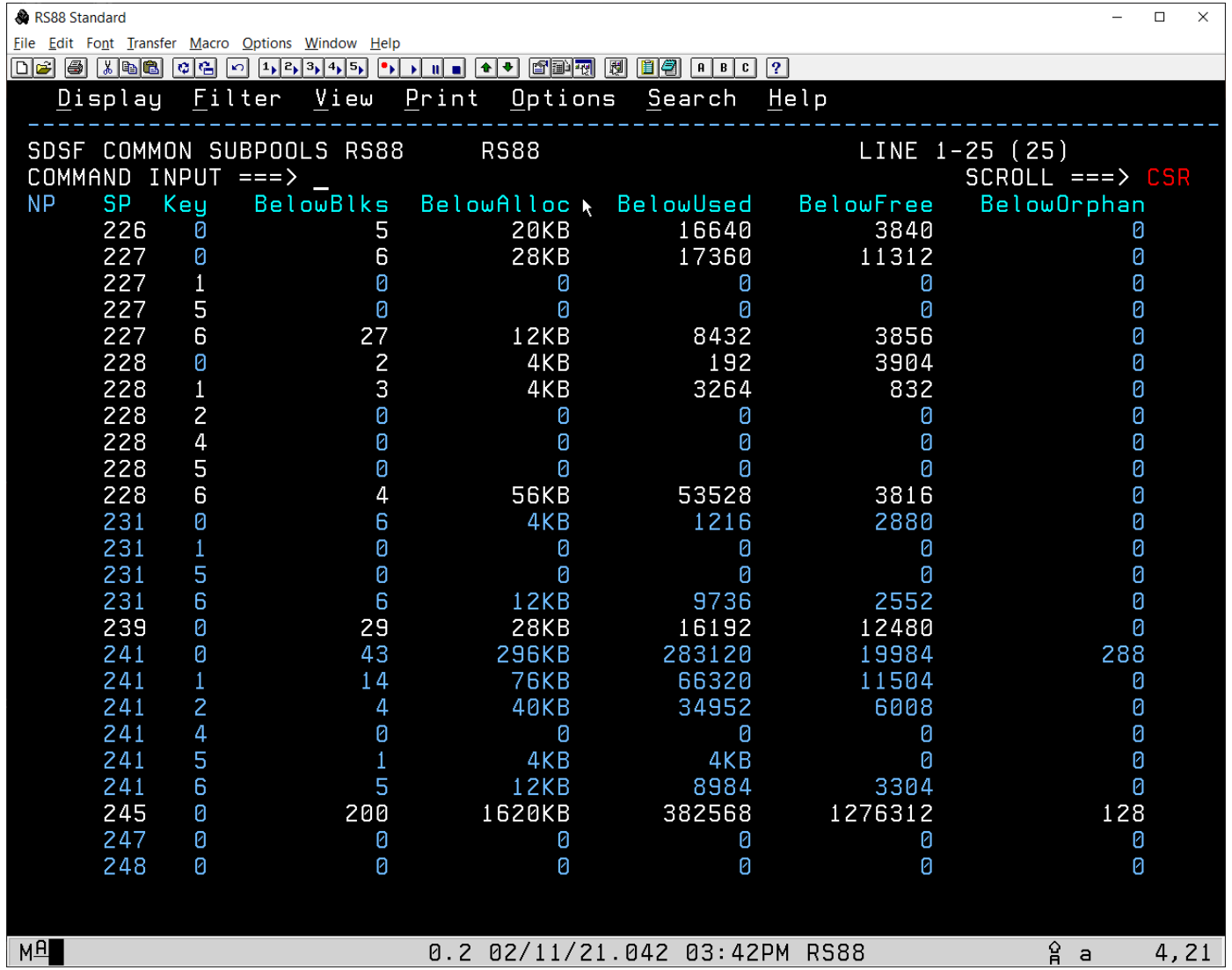
AD Panel


RS88
File Edit Font Transfer Macro Options Window Help
Display Filter View Print Options Search Help
SDSF AD DISPLAY RS88 RS88 LINE 1-56 (66)
COMMAND INPUT ===> SCROLL ===> CSR
PREFIX=* DEST=(ALL) OWNER=* SORT=JOBNAME/A SYSNAME=
NP JOBNAME ASIDX StepName ProcStep JobID Owner ASCB ASSB ASXB TCB OUCB JSAB Pos SR Type ASID SSName CVT ECVT SysNam
MASTER 0001 STC04435 +MASTER+ 00FD4F00 01DB1500 00FD5098 007FF0C8 01DB36B8 020CA3B0 NS 1 JES2 00FD6688 01DC7A18 RS88
ALLOCAS 0016 ALLOCAS 00FB6580 022CC000 007FD000 007FED90 02298400 00000000 NS STC 22 00FD6688 01DC7A18 RS88
ANTAS000 000D ANTAS000 IEFPROC 00FA8100 02C63000 007FD000 007F8298 02C62400 00000000 NS STC 13 00FD6688 01DC7A18 RS88
ANTMAIN 000C ANTMAIN IEFPROC 00FA8280 025A9500 007FD000 007F8298 02C70300 00000000 NS STC 12 00FD6688 01DC7A18 RS88
APPC 004A APPC APPC 00FC8600 02120500 007FD000 007F8298 02043400 00000000 NS STC 74 00FD6688 01DC7A18 RS88
ASCH 004B ASCH ASCH 00FC4A00 02042000 007FD000 007F8298 01F70400 00000000 NS STC 75 00FD6688 01DC7A18 RS88
AXR 0019 AXR IEFPROC 00FB5800 020FD000 007FD000 007F8298 02E31400 00000000 NS STC 25 00FD6688 01DC7A18 RS88
AXR02 0025 AXR02 STC04487 ++++++++ 00FAF700 01F72000 007FD000 007F80E0 02045400 020D9DC0 OUT LW STC 37 JES2 00FD6688 01DC7A18 RS88
BPXOINIT 006D BPXOINIT BPXOINIT 00FA7A00 03759000 007FD000 007F8298 03758400 00000000 OUT DW STC 109 00FD6688 01DC7A18 RS88
CATALOG 0028 CATALOG IEFPROC 00F99000 0209E000 007FD000 007AC298 0209D400 00000000 NS STC 40 00FD6688 01DC7A18 RS88
CEA 001A CEA IEFPROC 00FB5680 02106000 007FD000 007F8298 0210D400 00000000 NS STC 26 00FD6688 01DC7A18 RS88
CONSOLE 000A CONSOLE 00FAB200 02D85000 007FD000 007FED90 02D84400 00000000 NS STC 10 00FD6688 01DC7A18 RS88
CSF 0053 CSF CSF STC04500 CSFUSER 00FC2B80 01F5C000 007FD000 007F80E0 01F5B400 02032040 NS STC 83 JES2 00FD6688 01DC7A18 RS88
CSSMTP 0074 CSSMTP CSSMTP STC04602 CSSMTP 00FA6D00 0372E000 007FD000 007F80E8 0372D400 02E2D120 IN STC 116 JES2 00FD6688 01DC7A18 RS88
DEVMAN 000E DEVMAN IEFPROC 00FB6000 02C61000 007FD000 007F8298 02C60400 00000000 NS STC 14 00FD6688 01DC7A18 RS88
DUMPSRV 0005 DUMPSRV DUMPSRV 00FAB980 02F83000 007FD000 007F81A0 02F82400 00000000 NS STC 5 00FD6688 01DC7A18 RS88
FTPD1 006C FTPD1 STC04592 FTPD 00FA7D00 03747400 007FD000 007CDD90 03745400 0376F040 OUT DW STC 108 JES2 00FD6688 01DC7A18 RS88
GRS 0007 GRS 00FAB680 023AE000 007FD000 007FED90 023A92C0 00000000 NS STC 7 00FD6688 01DC7A18 RS88
GTZ 000F GTZ GTZ 00FB6E80 02C5E000 007FD000 007F8298 02241400 00000000 NS STC 15 00FD6688 01DC7A18 RS88
HZR 0020 HZR IEFPROC 00FAFE80 020CD000 007FD000 007F8298 020CC400 00000000 NS STC 32 00FD6688 01DC7A18 RS88
HZSPROC 0012 HZSPROC HZSSTEP STC04439 HZSPROC 00FB6A00 021DB500 007FD000 007F80E0 021D5400 02E2F520 NS STC 18 JES2 00FD6688 01DC7A18 RS88
IEFSCHAS 0014 IEFSCHAS 00FCB080 02390000 007FD000 007FED90 0238F400 00000000 NS STC 20 00FD6688 01DC7A18 RS88
IOSAS 0018 IOSAS IEFPROC 00FB6280 02141000 007FD000 007F8298 02140400 00000000 NS STC 24 00FD6688 01DC7A18 RS88
IXGLOGR 0017 IXGLOGR IEFPROC 00FB6400 0210F000 007FD000 007F8298 02396400 00000000 NS STC 23 00FD6688 01DC7A18 RS88
JESXCF 0015 JESXCF IEFPROC 00FB6700 0238E000 007FD000 007F8298 022CE400 00000000 NS STC 21 00FD6688 01DC7A18 RS88
JES2 0021 JES2 IEFPROC 00FAFD00 020CB000 007FD000 007F8298 020DE400 020D1040 NS STC 33 JES2 00FD6688 01DC7A18 RS88
JES2AUX 001F JES2AUX 00FAF000 020A0400 007FD000 007FED90 02036400 00000000 NS STC 31 00FD6688 01DC7A18 RS88
JES2MON 002A JES2MON IEFPROC 00F99880 02089000 007FD000 007F8298 02088400 00000000 NS STC 42 00FD6688 01DC7A18 RS88
MNTWTOR 001E WTOR1 JOB02622 SUBJCL 00FB5080 01FFF000 007FD000 007D5C60 020E1400 020E4E20 OUT LW JOB 30 JES2 00FD6688 01DC7A18 RS88
MXIDMON 0013 MXIDMON MXXSRVK4 STC04588 MXISTC 00FA7680 03774000 007FD000 007F80E0 03773400 020D20C8 NS STC 19 JES2 00FD6688 01DC7A18 RS88
MXIMAST 0054 MXIMAST MXXMSTK4 STC04499 MXISTC 00FC2A00 01F57000 007FD000 007F80E0 01F56400 01F84040 NS STC 84 JES2 00FD6688 01DC7A18 RS88
MXITCP 006E MXITCP MXXSRVK4 STC04589 MXISTC 00FA7500 03772000 007FD000 007F80E0 03771400 020D2008 NS STC 110 JES2 00FD6688 01DC7A18 RS88
OMVS 0010 OMVS OMVS 00FB6D00 021EB000 007FD000 007F8028 021EA400 00000000 NS STC 16 00FD6688 01DC7A18 RS88
OSNMPD 006A OSNMPD OSNMPD STC04601 STCUSER 00FB5500 01F80500 007FD000 007F80E0 0378F400 01F65040 OUT DW STC 106 JES2 00FD6688 01DC7A18 RS88
PAGENT 004D PAGENT PAGENT STC04493 PAGENT 00FC4580 01F6B000 007FD000 007F80E0 01F6A400 01F4B040 OUT DW STC 77 JES2 00FD6688 01DC7A18 RS88
PCAUTH 0002 PCAUTH 00FB3200 025C5500 007FD000 007FED90 02560400 00000000 NS STC 2 00FD6688 01DC7A18 RS88
PCIE 0011 PCIE IEFPROC 00FB6B80 021E3000 007FD000 007F81A0 021E2400 00000000 NS STC 17 00FD6688 01DC7A18 RS88
PDSCOT 007A ROCKPROC S88TCP22 TSU06599 PDSCOT 00FA7E80 02593000 007FD000 007DE828 0374E400 01F1D000 OUT TI TSU 122 JES2 00FD6688 01DC7A18 RS88
PDSCOTA 0091 ROCKPROC S88TCP23 TSU06718 PDSCOTA 00FA4000 02D95000 007FD000 007DE828 02E2C400 020EDDC0 IN TSU 145 JES2 00FD6688 01DC7A18 RS88
PORTMAP 0052 PORTMAP PMAP STC04603 PORTMAP 00FC0200 0378E000 007FD000 007F80E0 0372F400 02026040 OUT LW STC 82 JES2 00FD6688 01DC7A18 RS88
PRIMEPSA 004F PRIMEPSA IGVDGNPP STC04495 ++++++++ 00FC4280 01F67000 007FD000 007F80E0 01F66400 01F42040 OUT DW STC 79 JES2 00FD6688 01DC7A18 RS88
RACF 0027 RACF RACF STC04598 RACF 00FAF200 020B0000 007FD000 007F8298 02149400 02046088 NS STC 39 JES2 00FD6688 01DC7A18 RS88
RASP 0003 RASP 00FB3080 0255A000 007FD000 007FED90 02559400 00000000 NS STC 3 00FD6688 01DC7A18 RS88
RESOLVER 001B RESOLVER EZBREINI 00FA7B80 02F7C000 007FD000 007F8298 0375D400 00000000 NS STC 27 00FD6688 01DC7A18 RS88
RMF 0051 RMF IEFPROC STC04498 RMF 00FC2E80 01F83000 007FD000 007F80E0 01F82400 01F3A040 NS STC 81 JES2 00FD6688 01DC7A18 RS88
SDSF 0085 SDSF SDSF STC06569 SDSF 00FA7200 03740000 007FD000 007F80E0 02122400 020C2040 NS STC 133 JES2 00FD6688 01DC7A18 RS88
SDSFAUX 0089 SDSFAUX SDSFAUX STC06570 SDSF 00FA6B80 020FB000 007FD000 007F80E0 0378B400 0209B030 NS STC 137 JES2 00FD6688 01DC7A18 RS88
SMF 001C SMF IEFPROC 00FB5380 020EB000 007FD000 007DEE88 02E2E400 00000000 NS STC 28 00FD6688 01DC7A18 RS88
SMS 0026 SMS IEFPROC 00FAF380 020B2000 007FD000 007F8298 020B1400 00000000 NS STC 38 00FD6688 01DC7A18 RS88
SMSPDSE 0008 SMSPDSE 00FAB500 0238C000 007FD000 007FED90 025532C0 00000000 NS STC 8 00FD6688 01DC7A18 RS88
SMSPDSE1 0009 SMSPDSE1 00FAB380 0229D000 007FD000 007FED90 0229C400 00000000 NS STC 9 00FD6688 01DC7A18 RS88
SNMPQE 006B SNMPQE SNMPQE STC04606 SNMPQE 00FA7080 0372C000 007FD000 007F80E0 0372B400 03767040 OUT LW STC 107 JES2 00FD6688 01DC7A18 RS88
SYSLOGD 0072 SYSLOGD STC04594 BPXOINIT 00FA6E80 03766000 007FD000 007CDD90 03765400 02046148 NS STC 114 JES2 00FD6688 01DC7A18 RS88
TCPIP 0050 TCPIP TCPIP STC04496 TCPIP 00FC2000 01F86000 007FD000 007F80E0 01F85400 01F75040 NS STC 80 JES2 00FD6688 01DC7A18 RS88
TNF 0048 TNF IEFPROC 00FC8300 01F8B000 007FD000 007F8298 01F8A400 00000000 NS STC 72 00FD6688 01DC7A18 RS88
TN3270 004E TN3270 TN3270 STC04562 TN3270 00FBC100 01F62000 007FD000 007F80E0 01F61400 020F6060 NS STC 78 JES2 00FD6688 01DC7A18 RS88
0.1 02/11/21.042 03:36PM RS88
4,21

CS Panel



Shows the common storage subpool usage summarized by subpool number and key

Subpool attributes including

- Fetch protection
- Key selection
- Fixed

The “L” action on the row drills down to show every block of storage in the subpool with the same key

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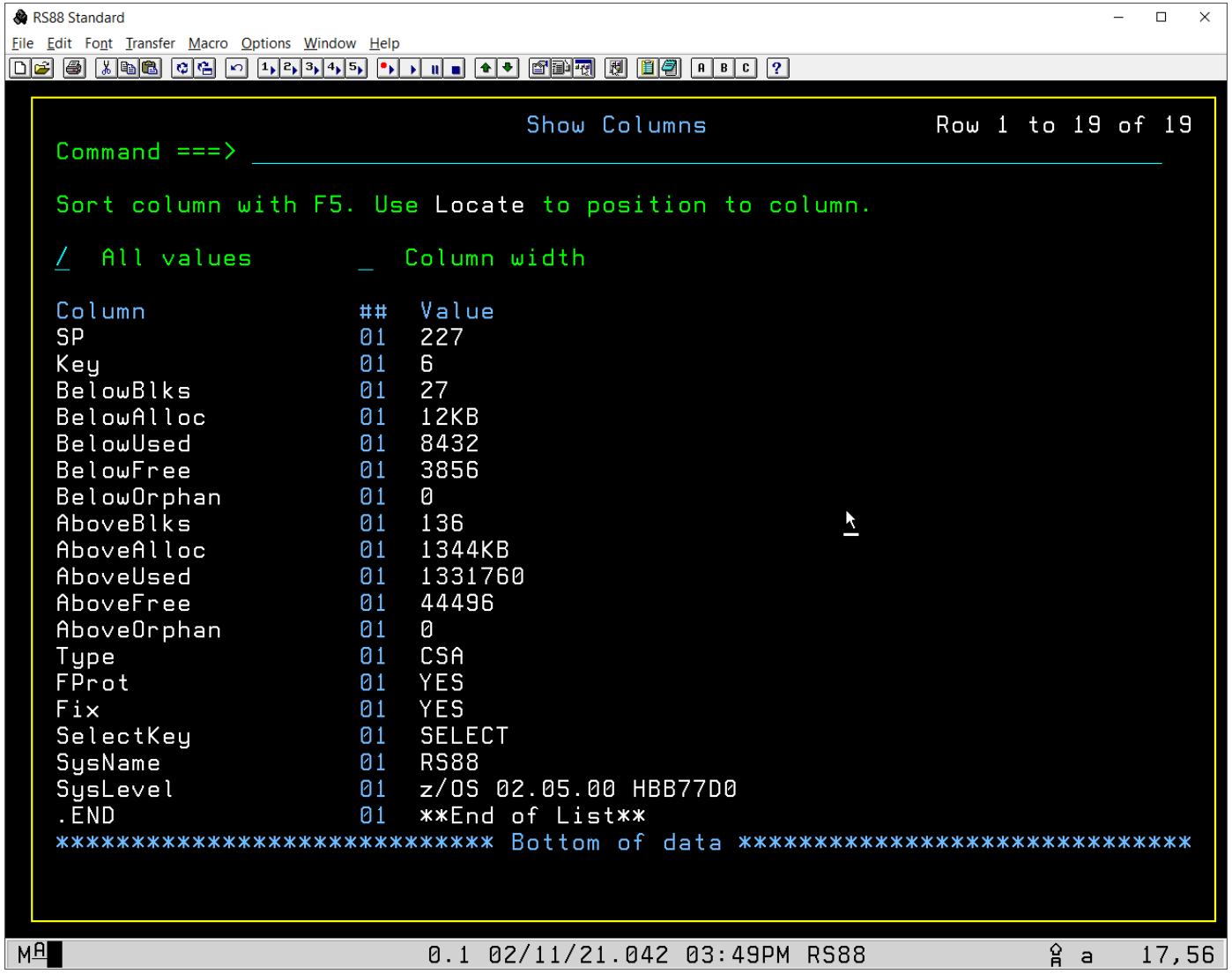
CS Panel Columns



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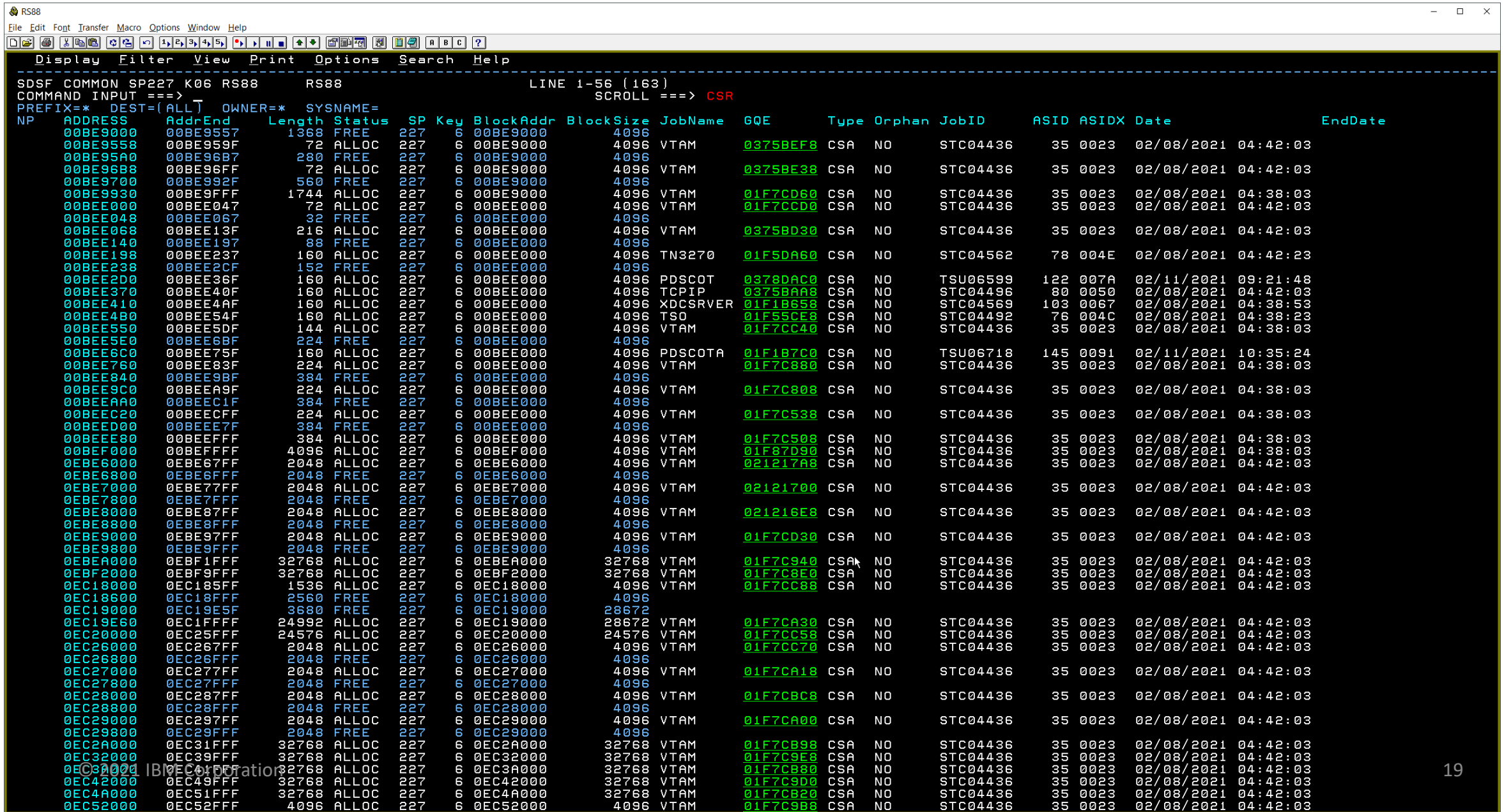
CS Panel – “L” Action



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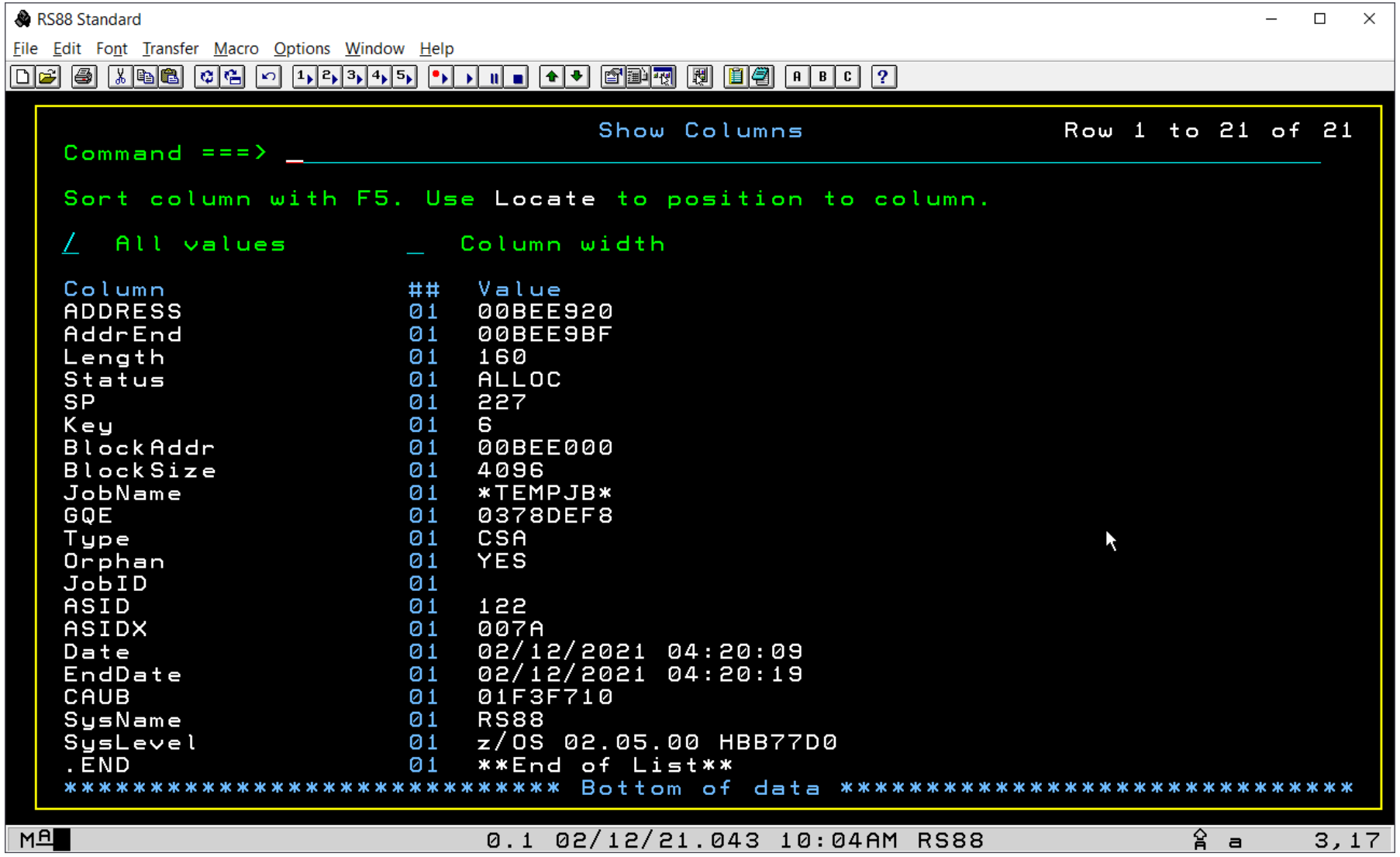
CS Panel Detail Columns



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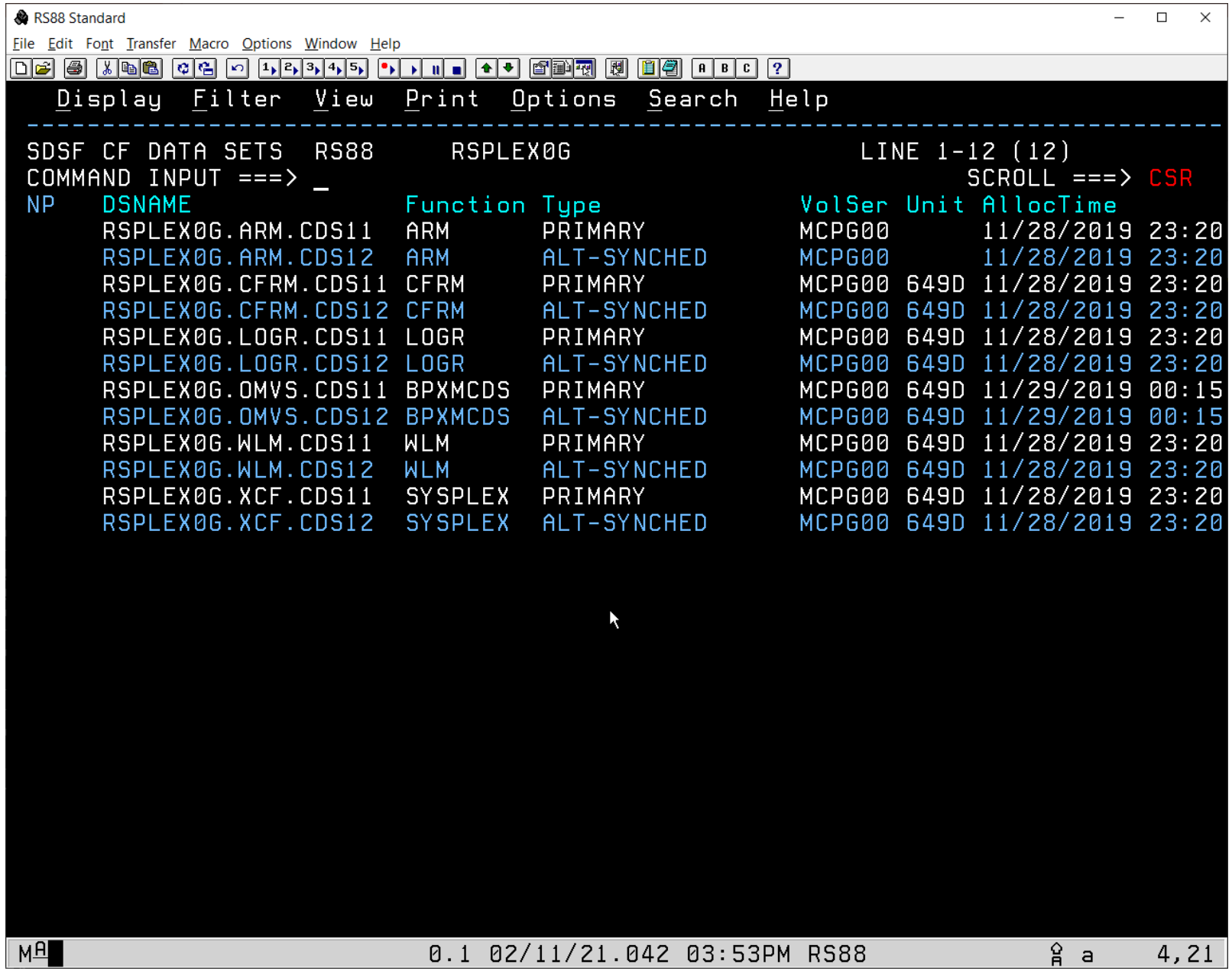
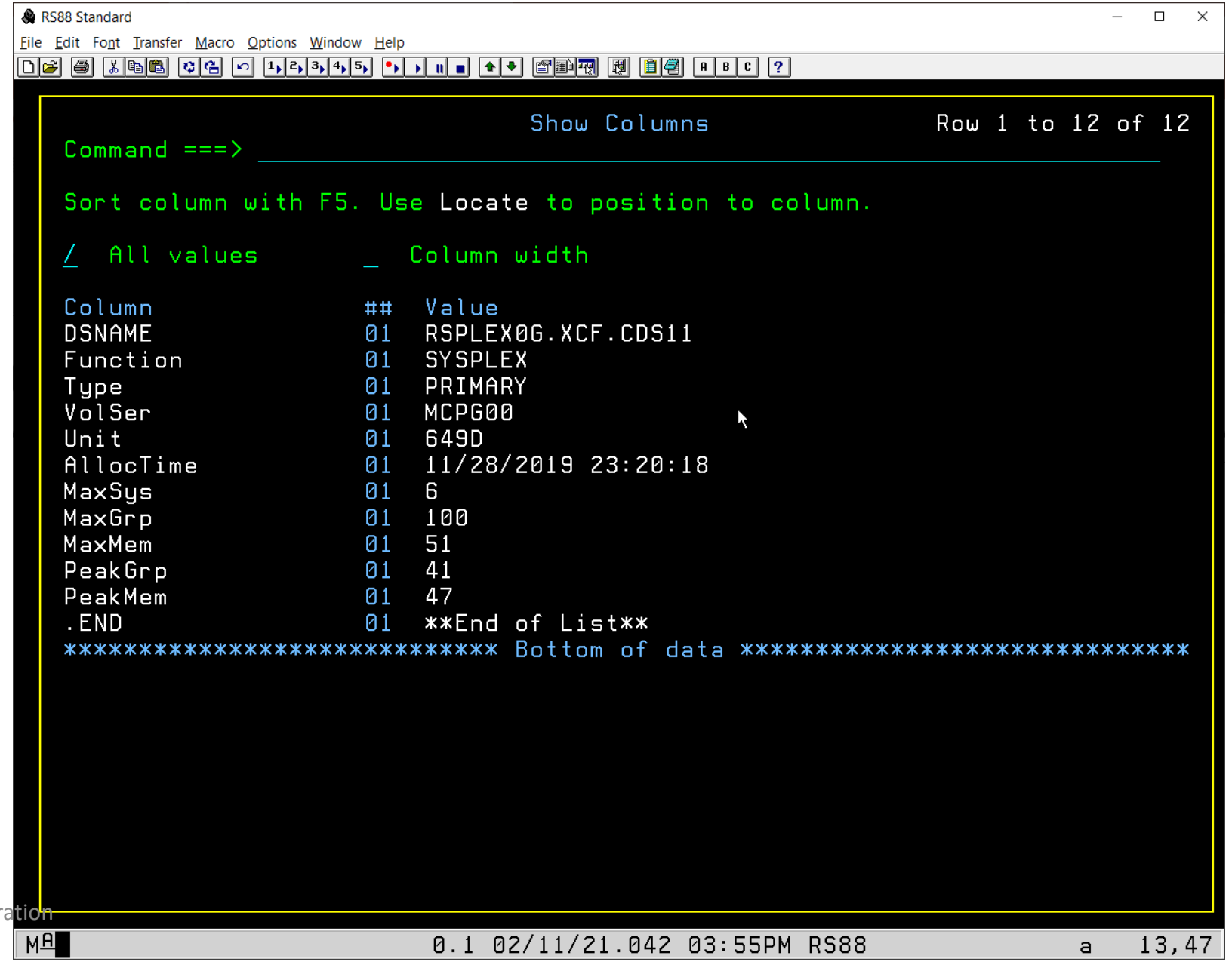
CFD Panel – Coupling facility data sets



Shows coupling facility data sets

Includes allocated time and attributes

CFD Panel Columns



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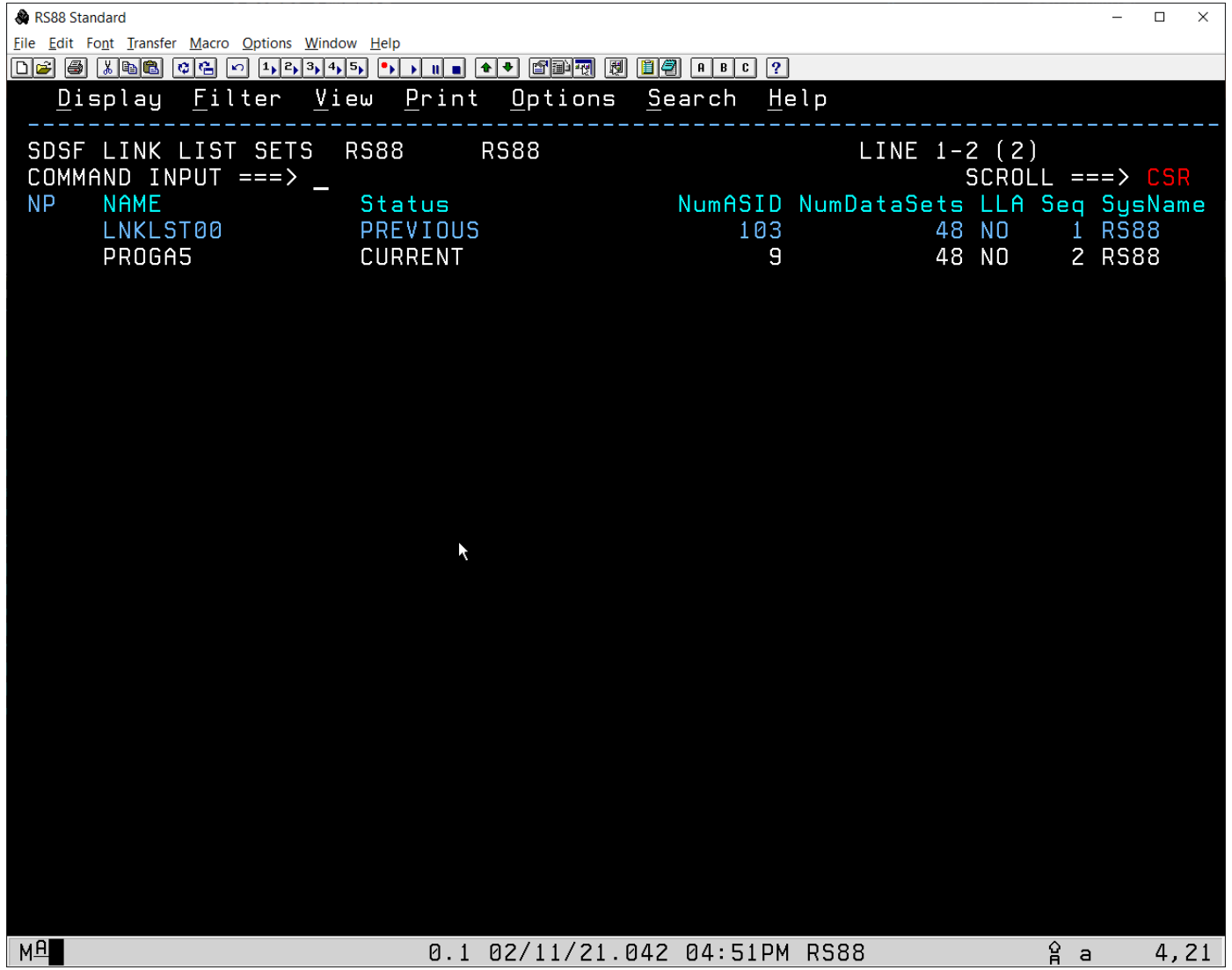
LLS Panel – Link List Sets



"L" action invokes the LNK display to show data sets in the link list set

"DU" action displays the users of the link list set

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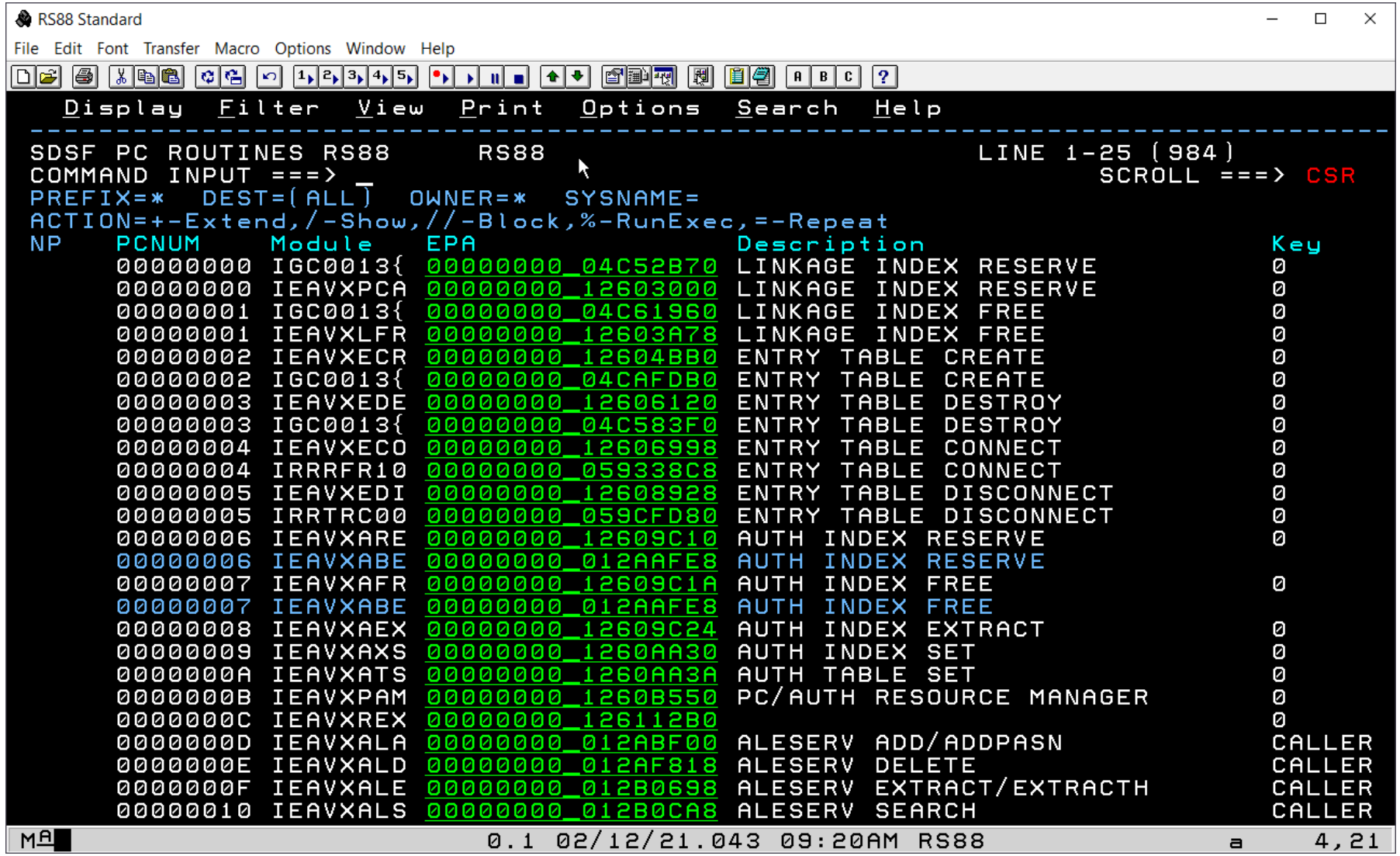
PC Panel – PC Routines



Shows PC routines associated with System linkage indexes (LX)

Includes descriptions of well-known PC numbers

Non-system LX PC routines are not shown

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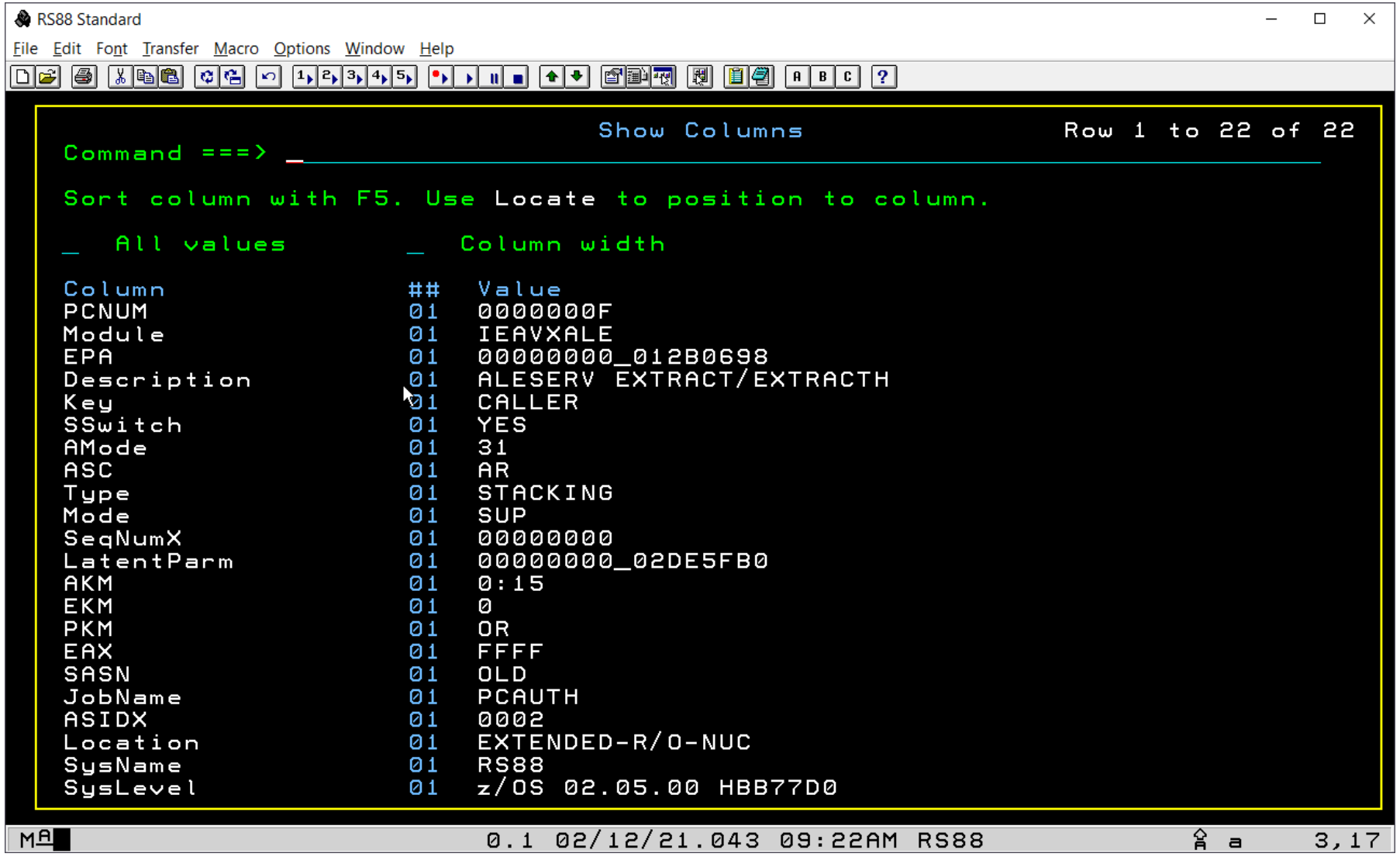
PC Panel Columns



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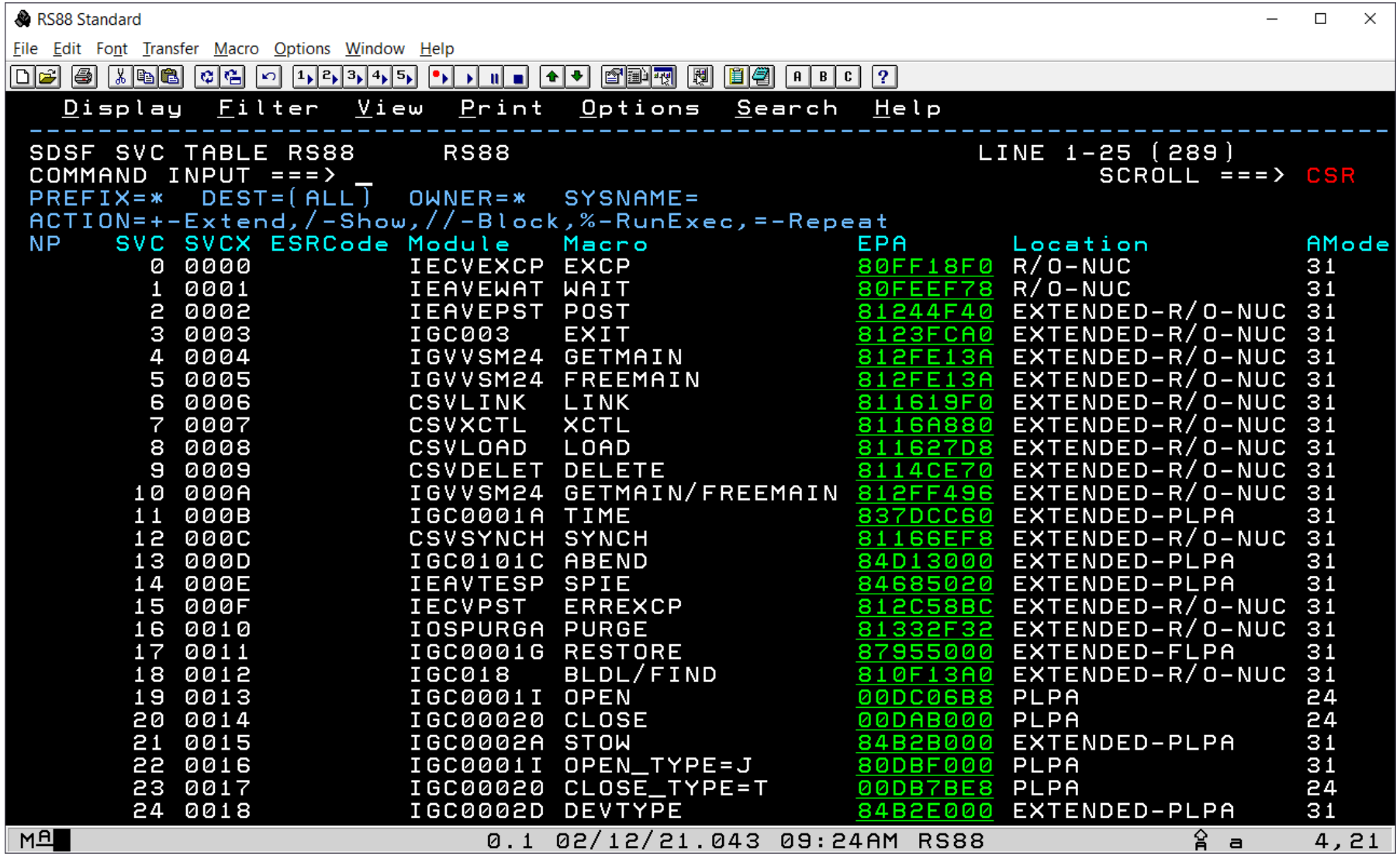
SVC Panel – SVC routines



Shows SVC routines

Descriptions for well-known SVC numbers

Includes entries for extended router SVCs (ESR)

Includes SVCUPDTE information

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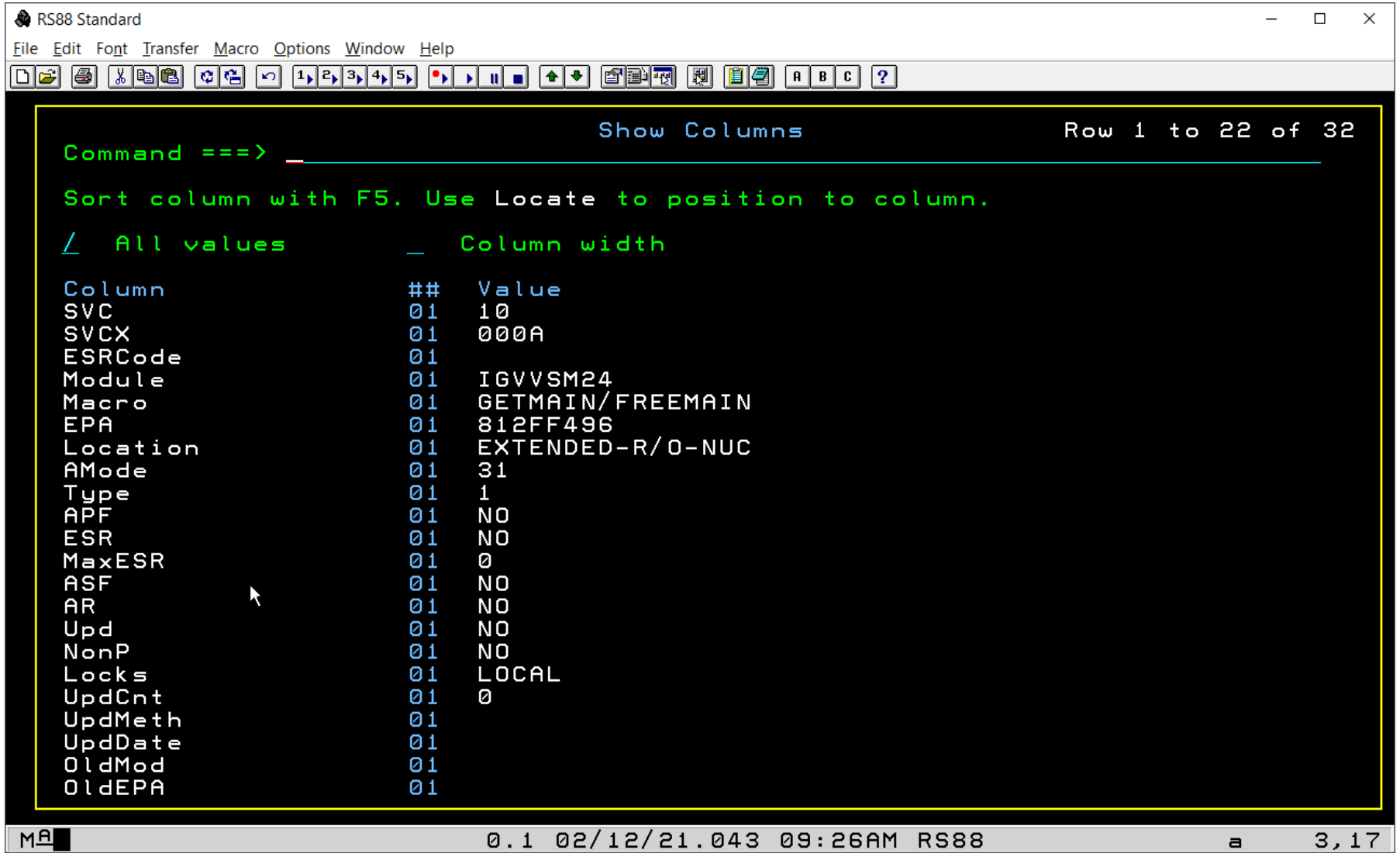
SVC Panel Columns



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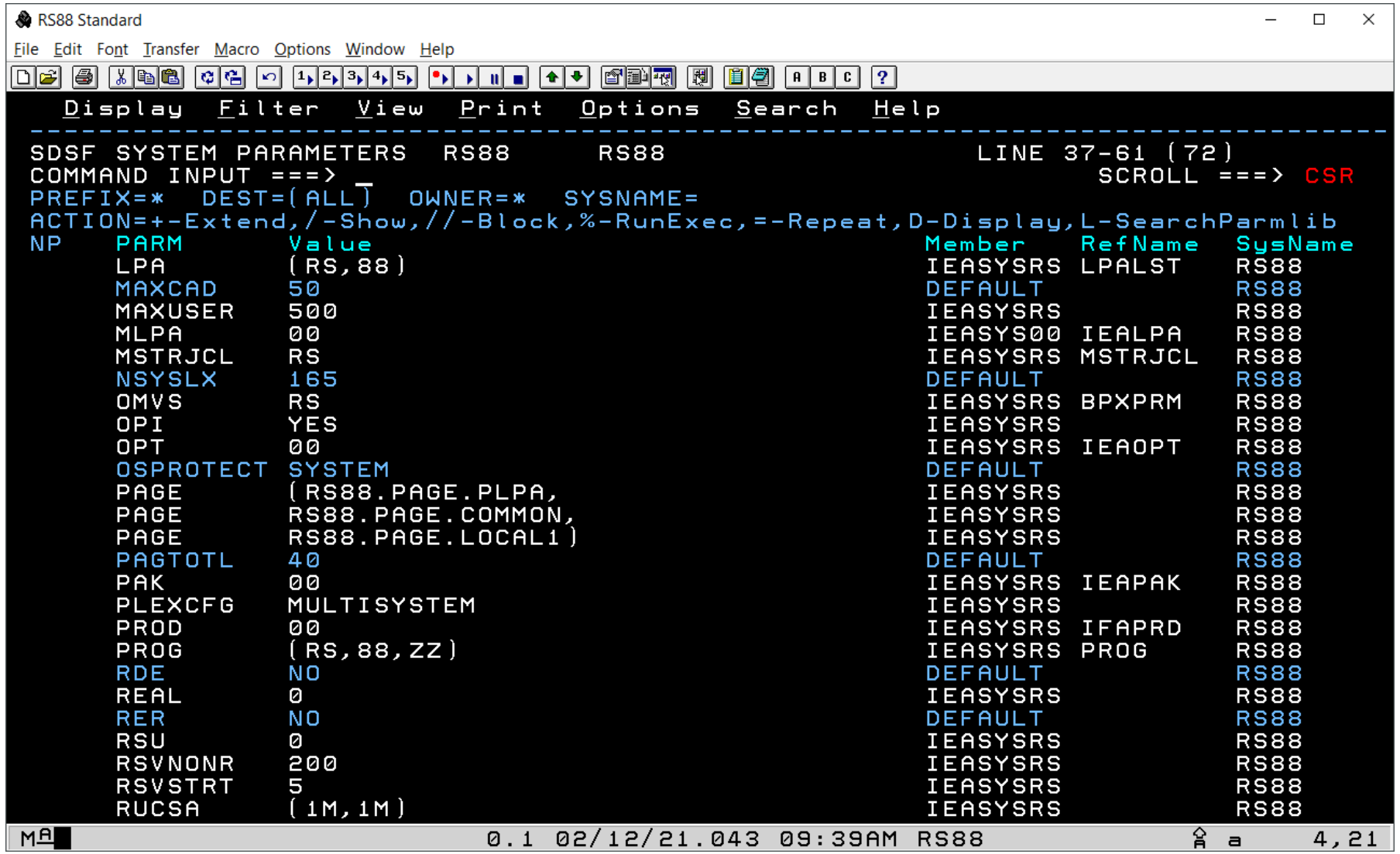
SYSP Panel – System Parameters



Shows system parameters used at IPL time

Includes source member from PARMLIB concatentation

Includes description for parameters

PARM column is the statement keyword from IEASYSxx

RefName is the actual data set member name root

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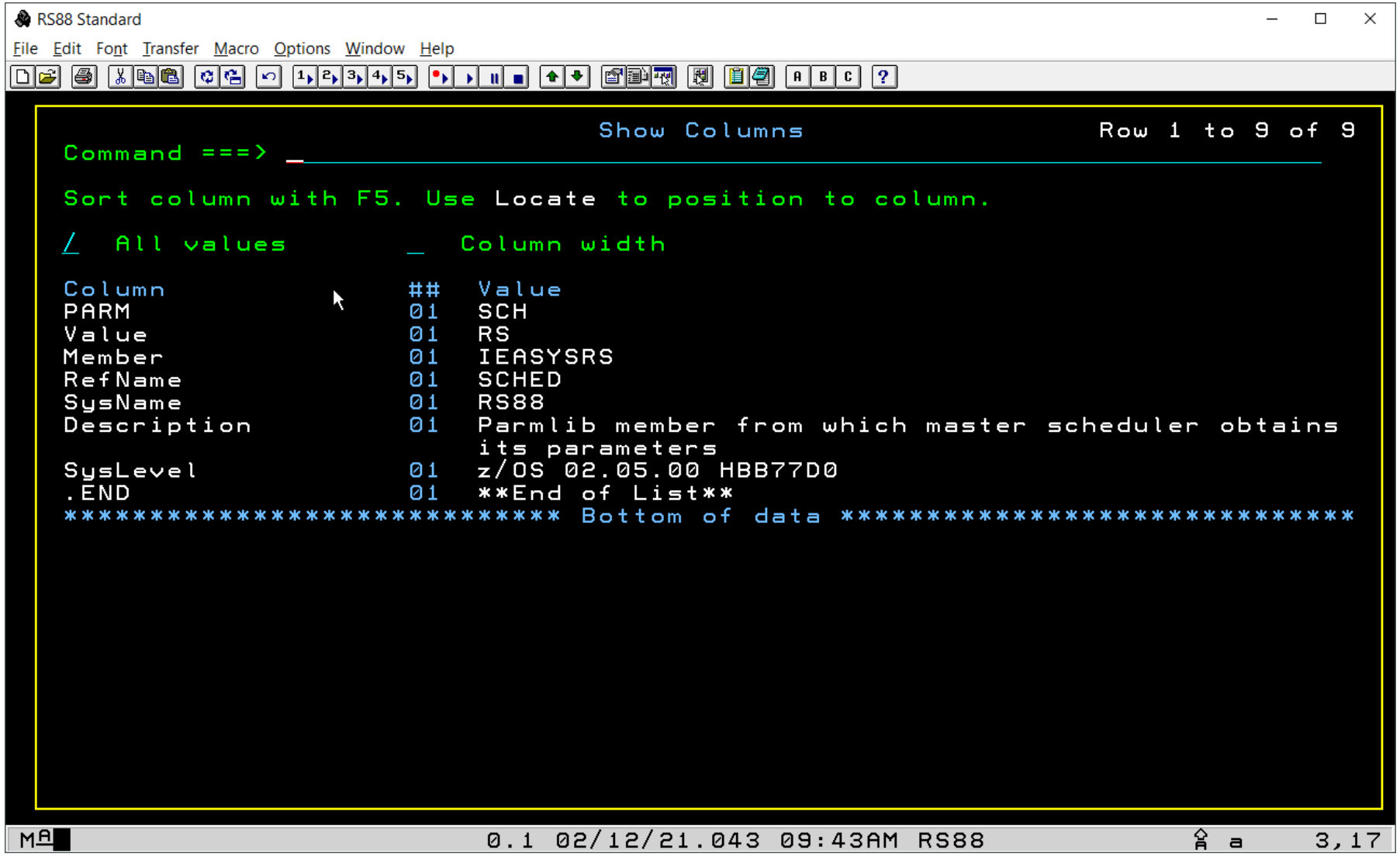
SYSP Panel Columns



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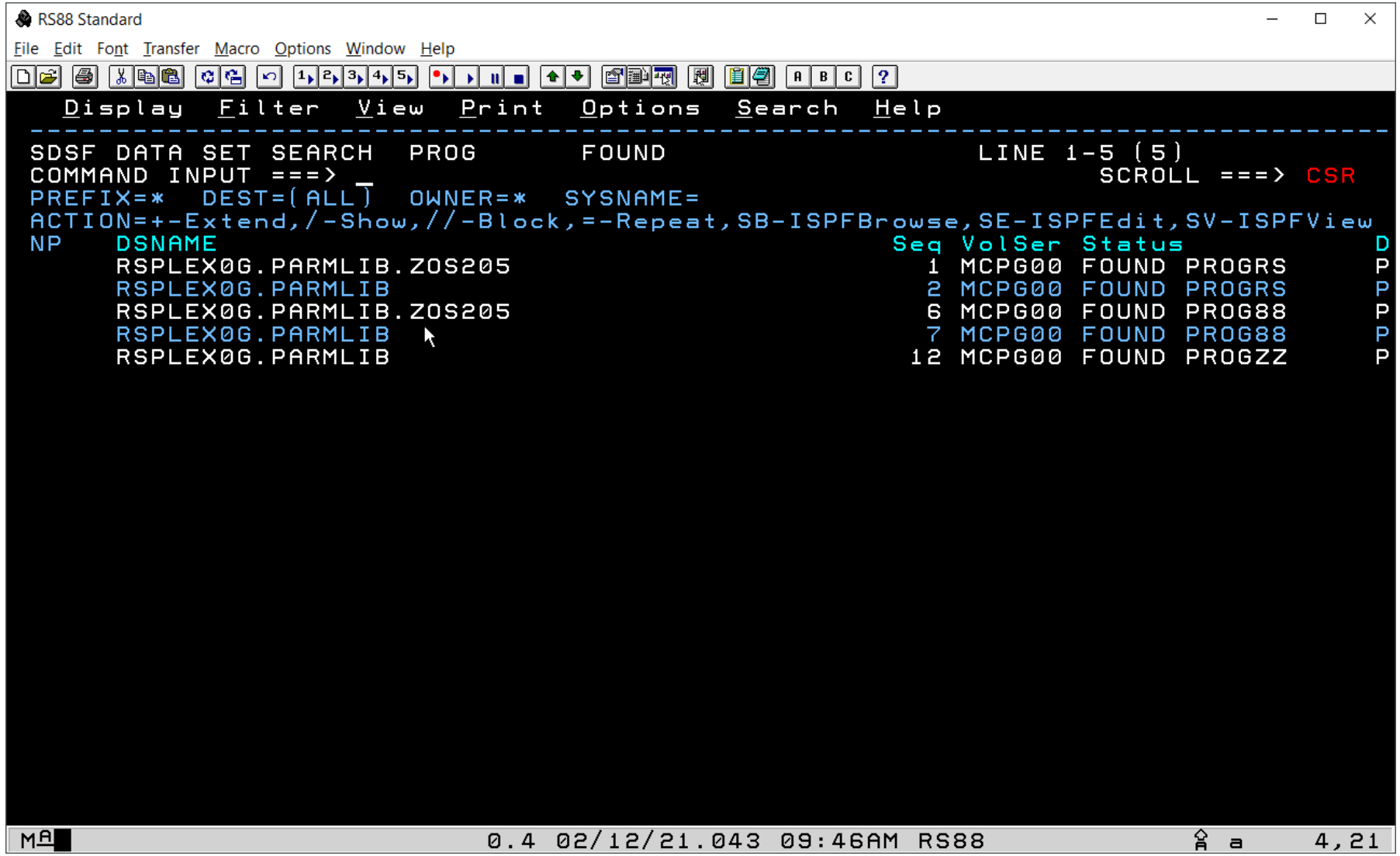
SYSP Panel – Search PARMLIB Data Sets



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

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

First found member of each suffix is highlighted

"Status" includes the member name

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New SDSF Secondary Panels

- Secondary panels are those that are only available as actions from another panel, typically as a specification in the “NP” column.

- Job common storage usage
  - Accessed from “DA”, “CSR”, “AS” and “AD” panels
- Job private storage subpool details
  - Accessed from “JM” panels
- Common storage subpool details
  - Accessed from “CS” panel
  - Already covered in the description of the primary panel
- Memory Structure Map
  - Accessed from “MEM” panel
  - Already covered in the description of the primary panel

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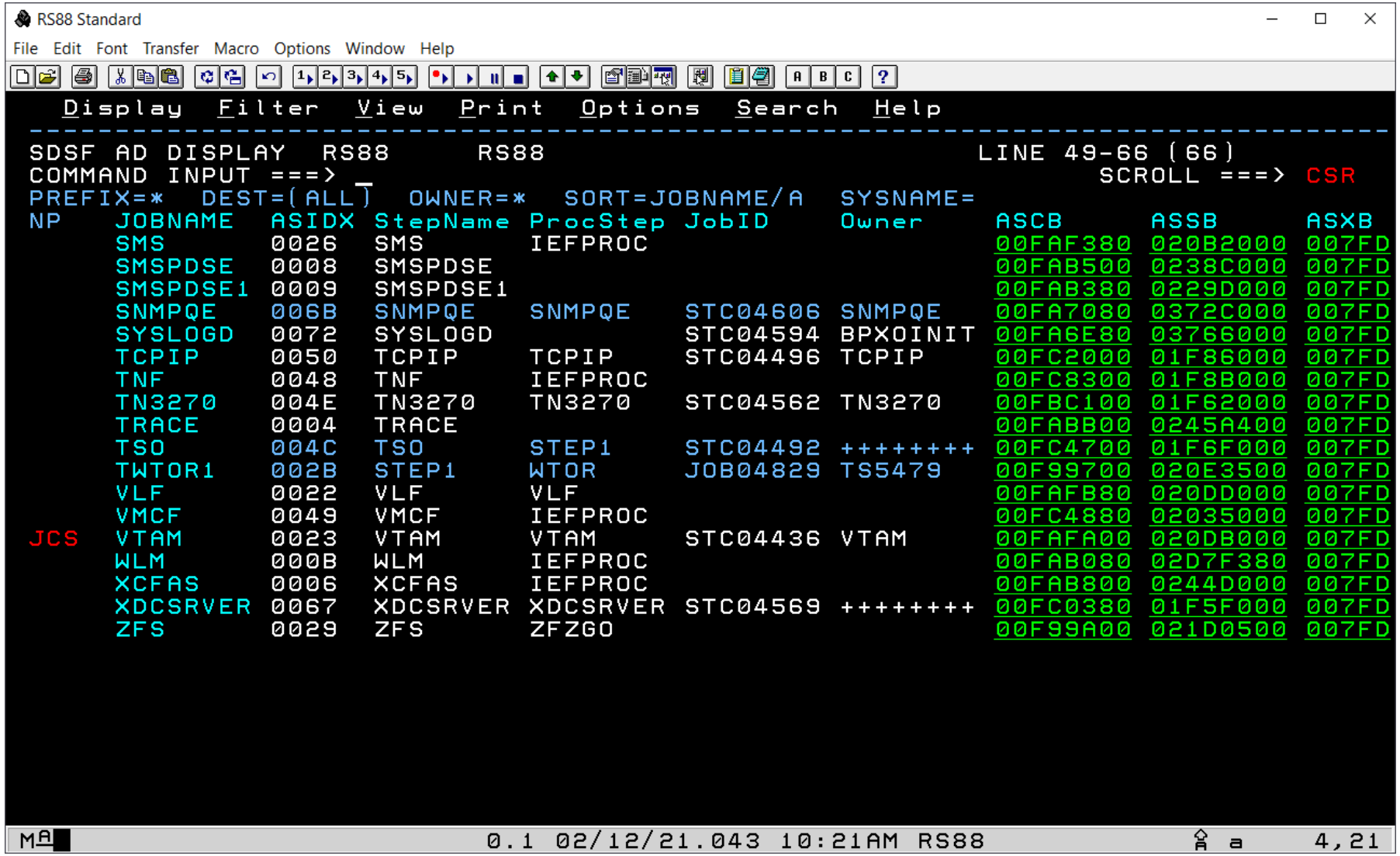
Job Common Storage Launch



Typically accessed using the "JCS" (JobCommonStorage) action on a panel that shows an address space.

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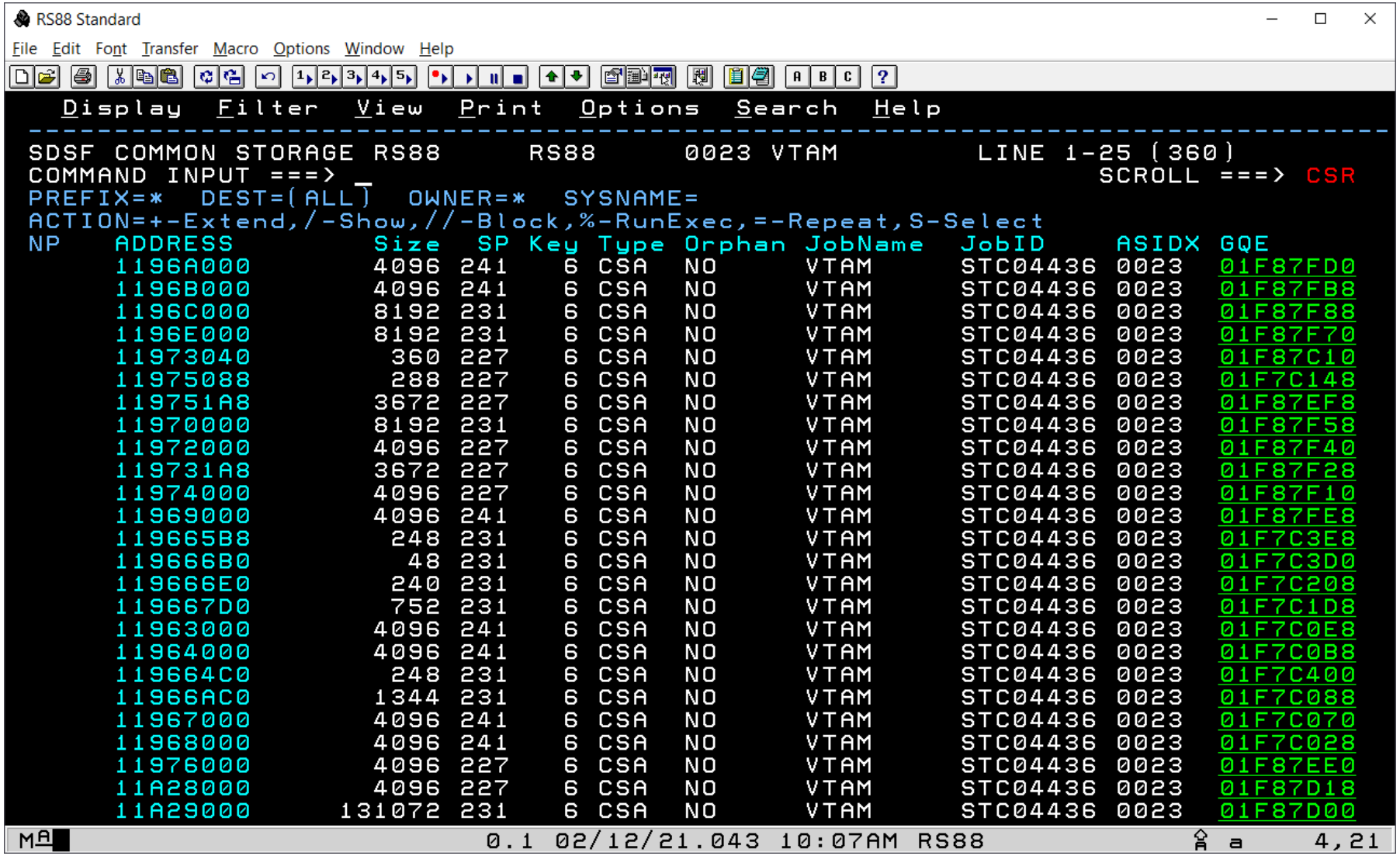
Job Common Storage Panel



Can also be used on a row on the CSR panel to drill down to each block of orphaned common storage.

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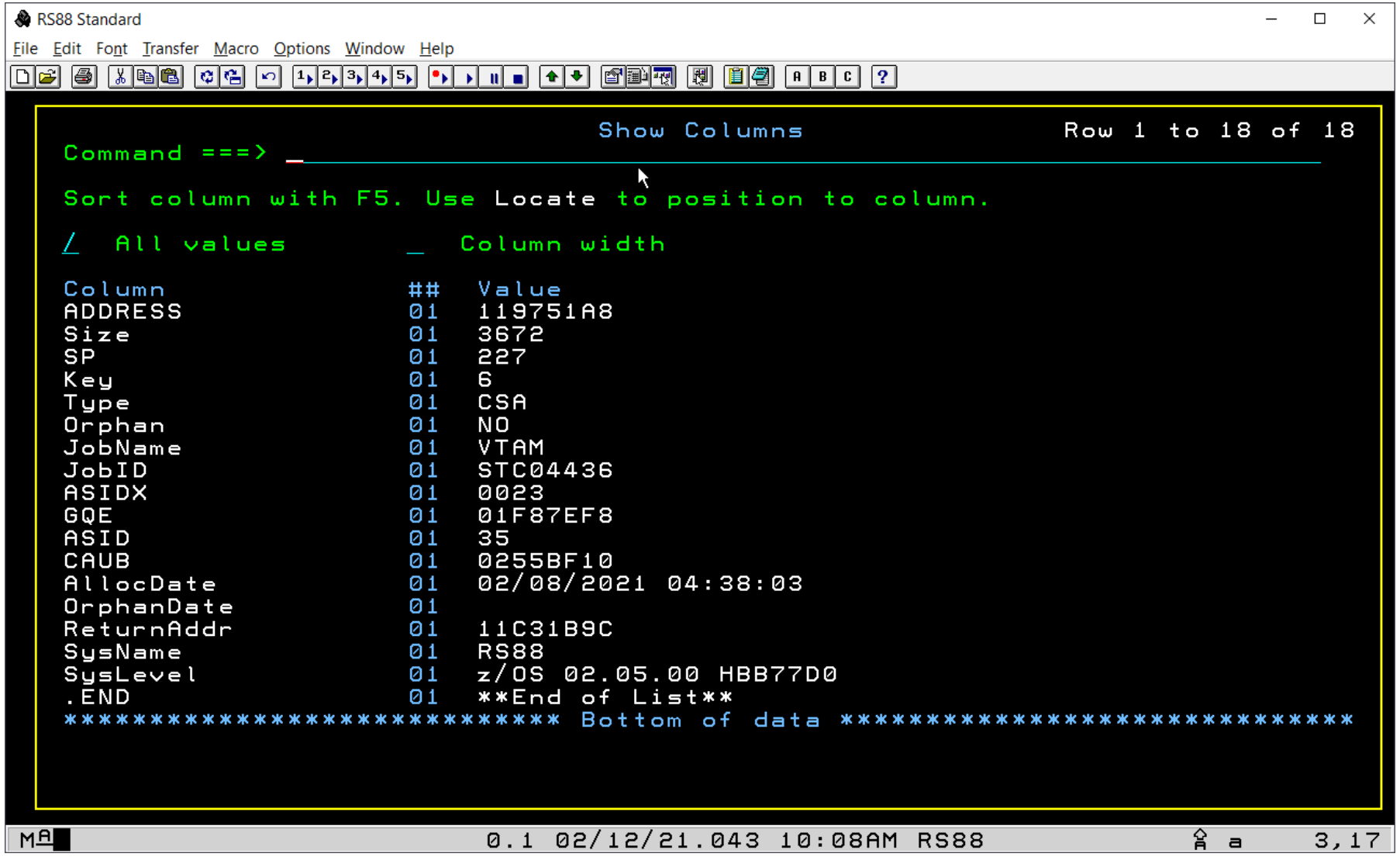
Job Common Storage Columns



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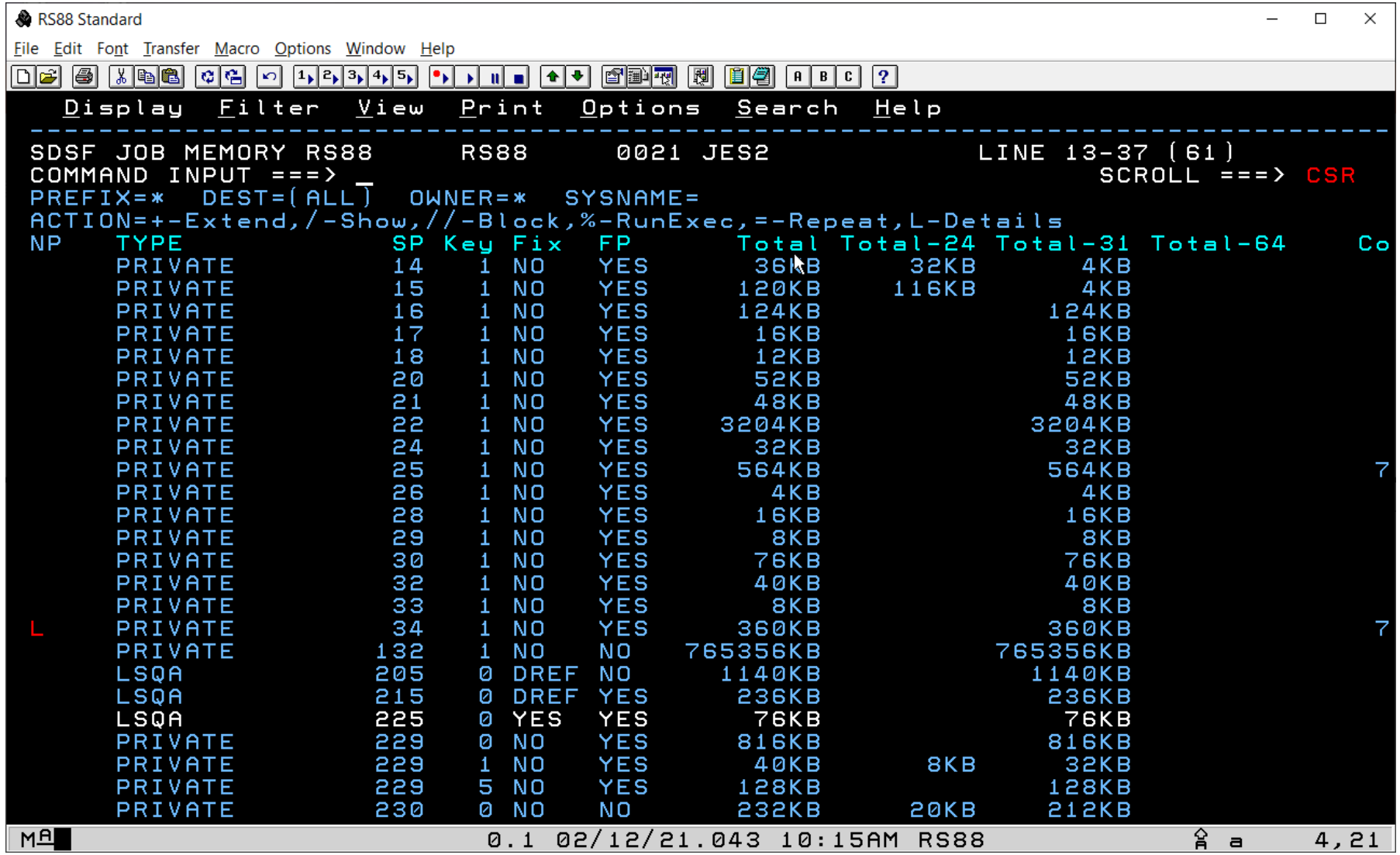
Job Private Storage Launch



Launched using the “L” action on the JM (JobMemory) panel

In this case, we are looking at subpool 34 storage in key1 for JES2

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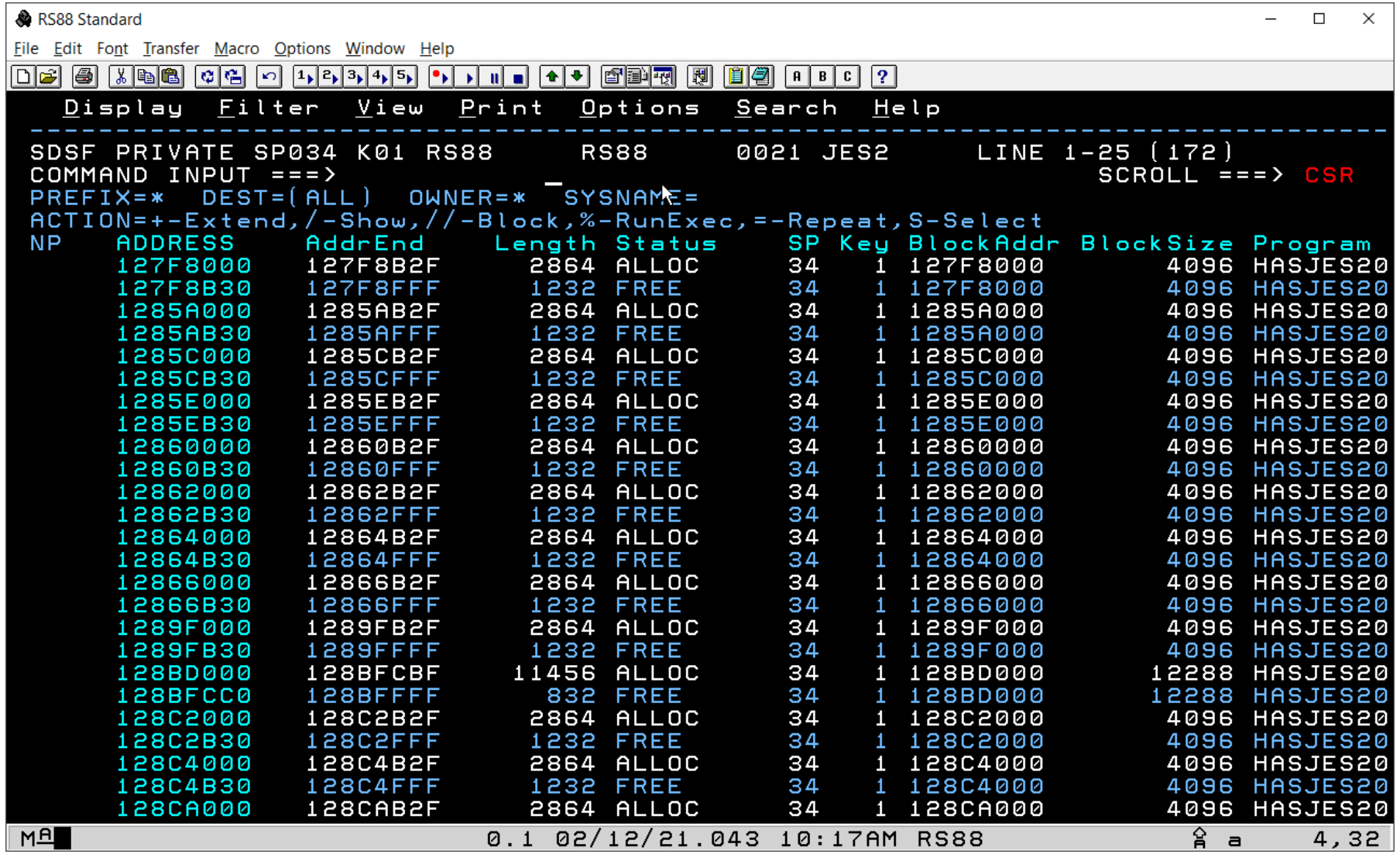
Job Private Storage Panel



Each block in the subpool+key for the ASID is shown and broken down into allocated and free blocks

Associated owning program name shown from the TCB owning the storage

Address is enabled for point-and-shoot access to the MEM panel

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New Columns On Existing Displays

- FS (File Systems)
  - TotalSpace, UsedSpace and Used%
- SMSV (SMS Volumes)
  - UsedMb
- SMSG (SMS Storage Group)
  - UsedMb
- CK (HealthChecks)
  - RexxHLQ
- RES (WLM Resources)
  - SchedEnv and Description
- DA (Active Jobs)
  - XCFGroup and SSName
- SYS (System Information)
  - TimeZoneOfs, HCSuccess, HCSevLow, HCSevMed and HCSevHigh

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New Help and Search Interface

- HELP, COLSHELP and SEARCH commands converted to display SDSF panels
  - 1000s of ISPF help panels removed
  - Help text generated from the SDSF User Guide manual
  - Help for ISPF Pop-Up panels unaffected
- HELP command syntax
  - HELP {section}
  - Defaults to panel that user is on
  - Help on main panel shows help index screen
  - If outstanding message in top RHS of SDSF screen, HELP will show section “SDSFMSGS”
- New help command ACTH
  - Shows attributes for actions on a panel
- New help command CMDH
  - Shows attributes for commands that generate tabular panels

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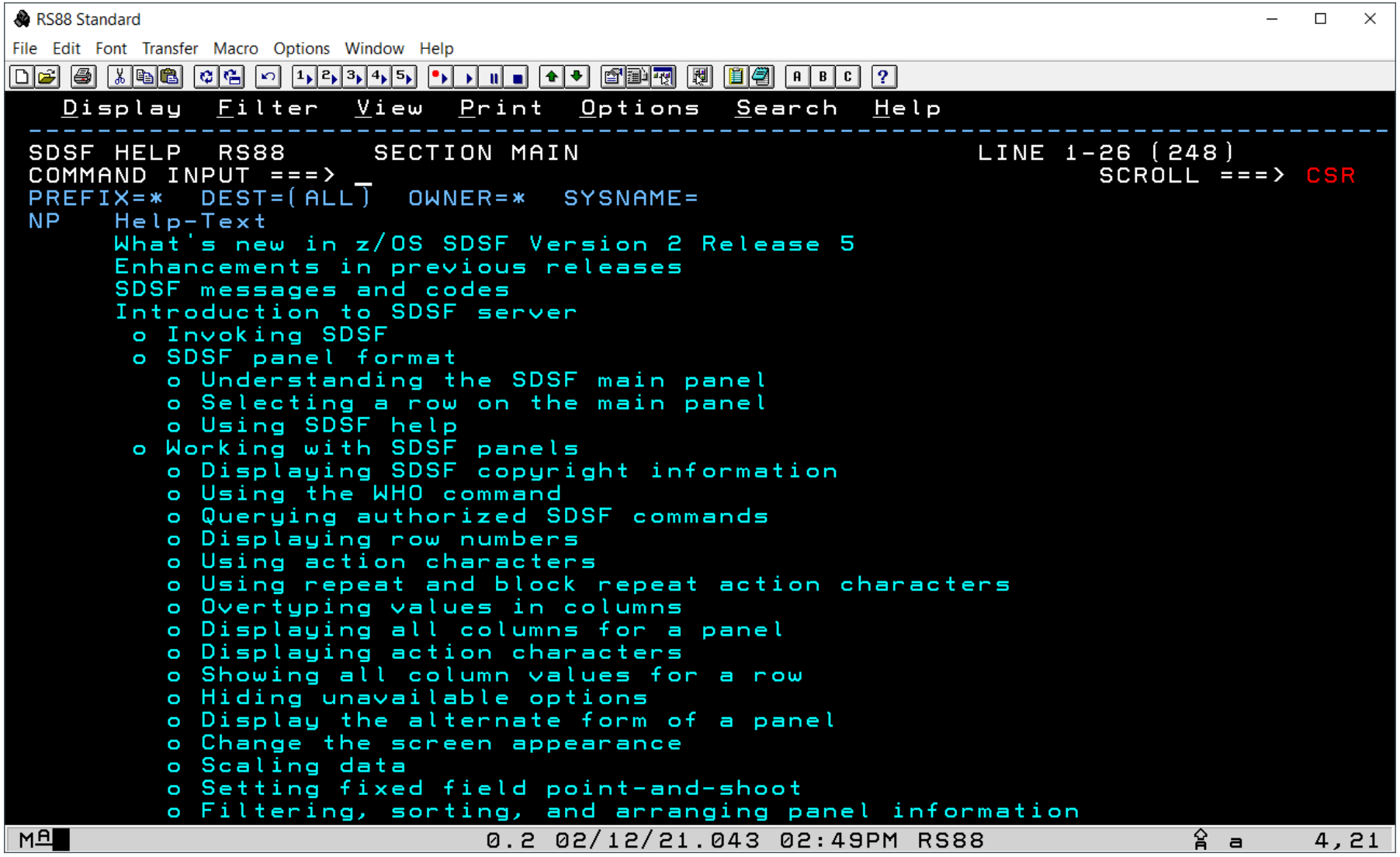
HELP Panel



Main help index screen

Use “S” action to select required help section

Point-and-shoot enabled

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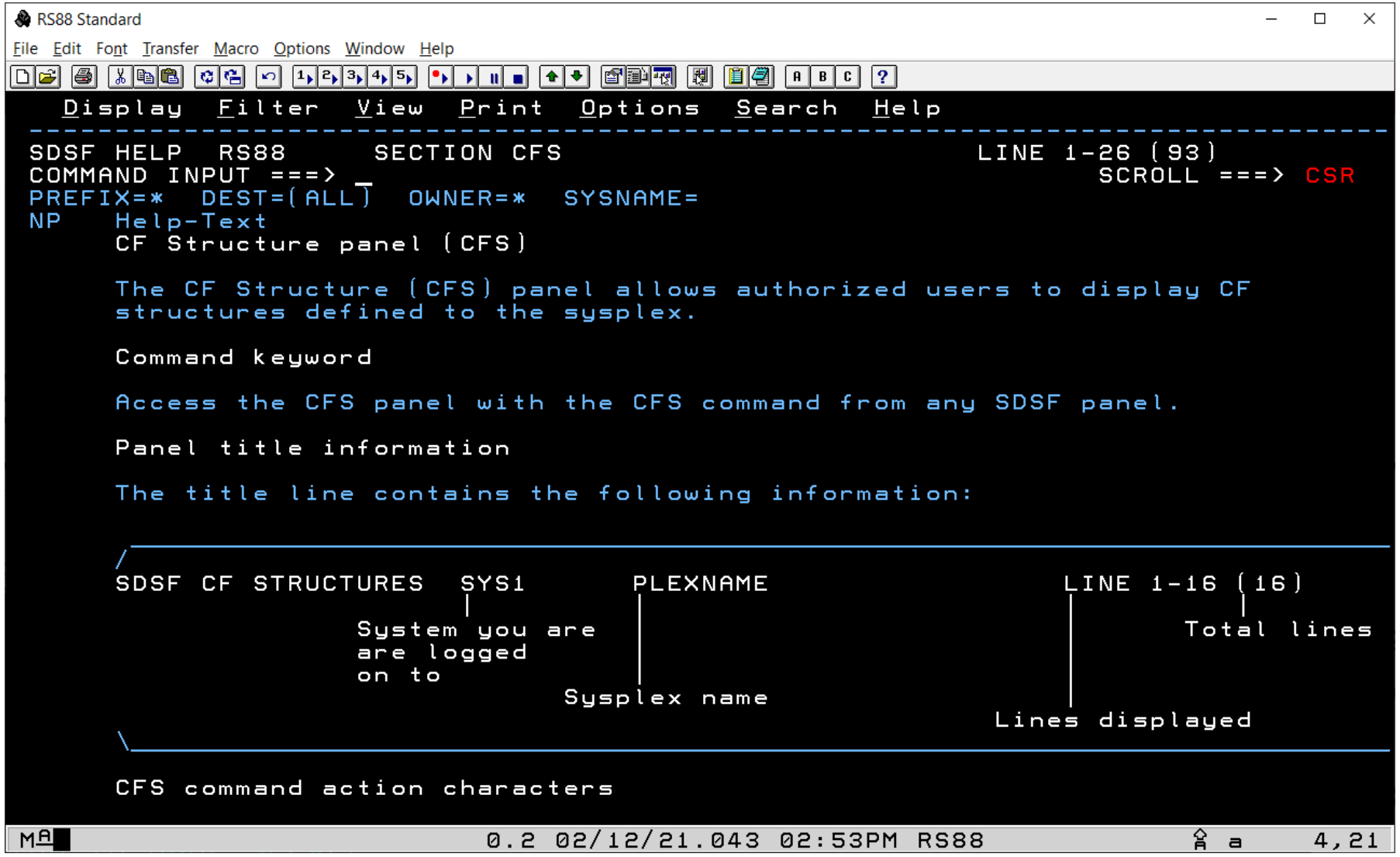
Help Panel Content



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SEARCH Command

- Search the help content and build a results list that can be used to select the matching section that contains the search terms
- Syntax
  - SEARCH {term1} {term2} {term3} {term4}
  - Enclose “term” in single quotes if there are embedded blanks
  - Implicit OR assumed between terms
  - Case insensitive
- If no terms specified, then pop-up prompt panel displayed
  - ISPF only

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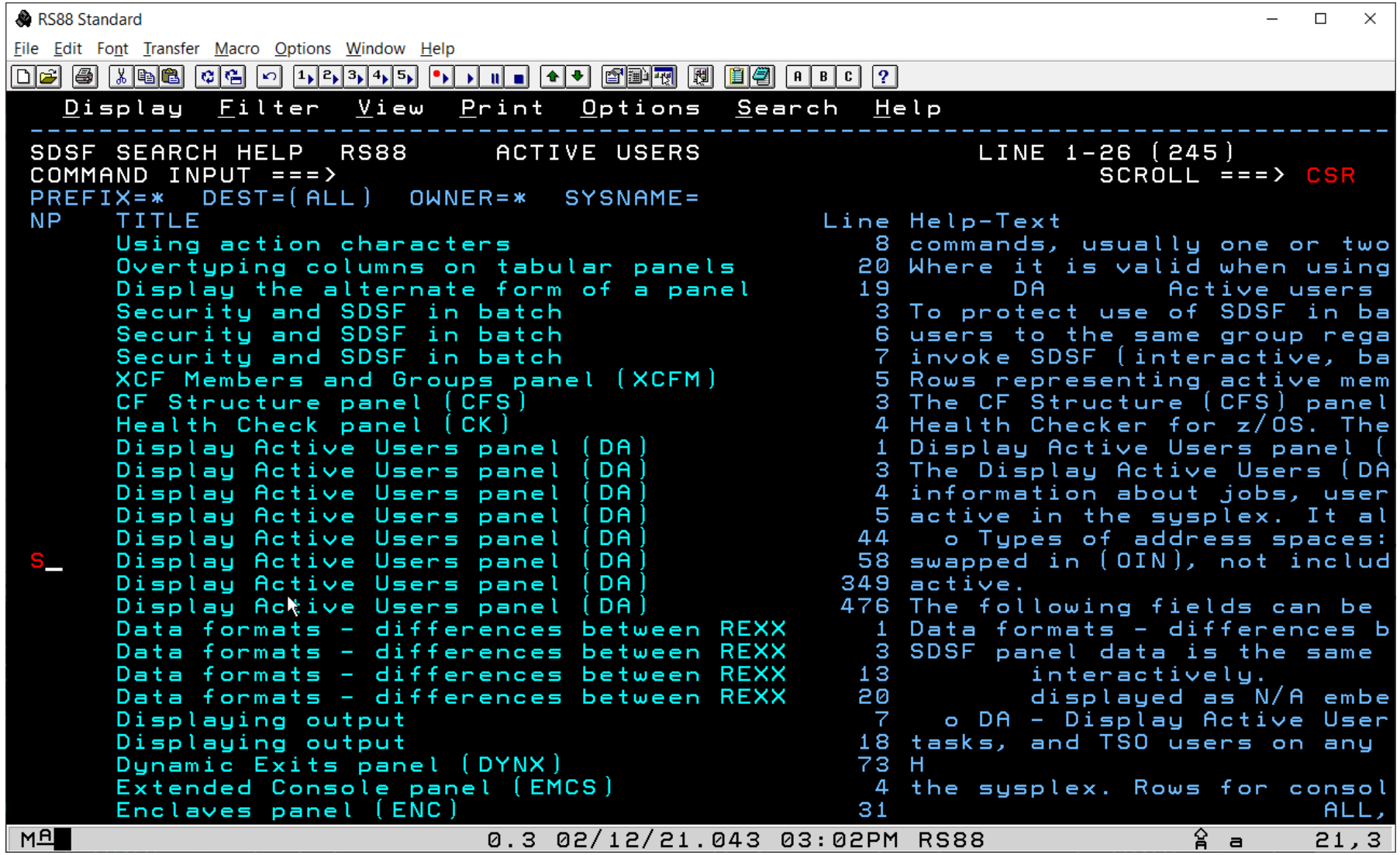
SEARCH Command Example



User typed “SEARCH ACTIVE USERS”

Result list as shown – notice the addition of the search terms in the panel title

User can then select the row and drill down to the specific section

Help contents will be positioned to line number in results list (in this case 58)

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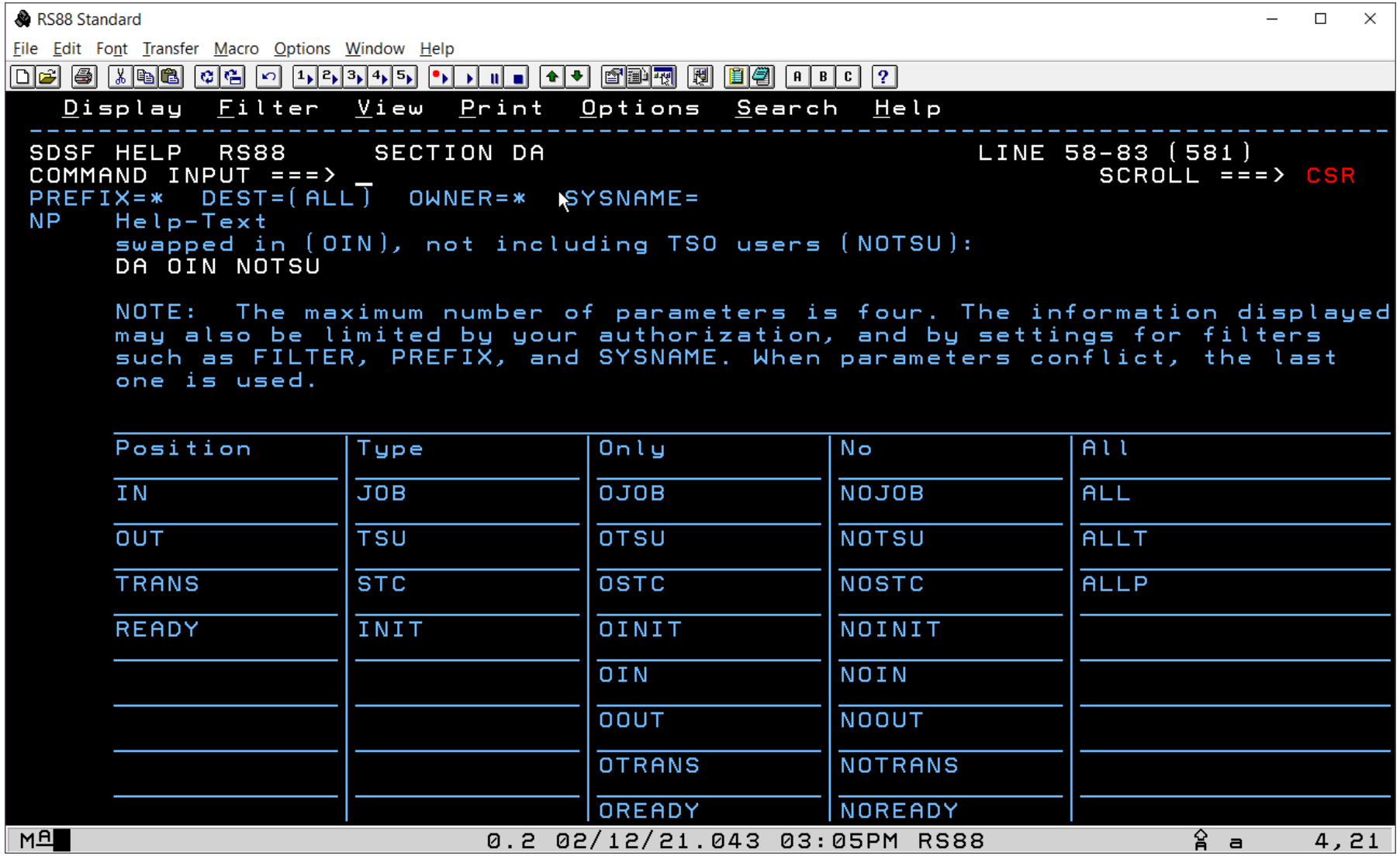
SEARCH Command Example - Select



Note the starting line number

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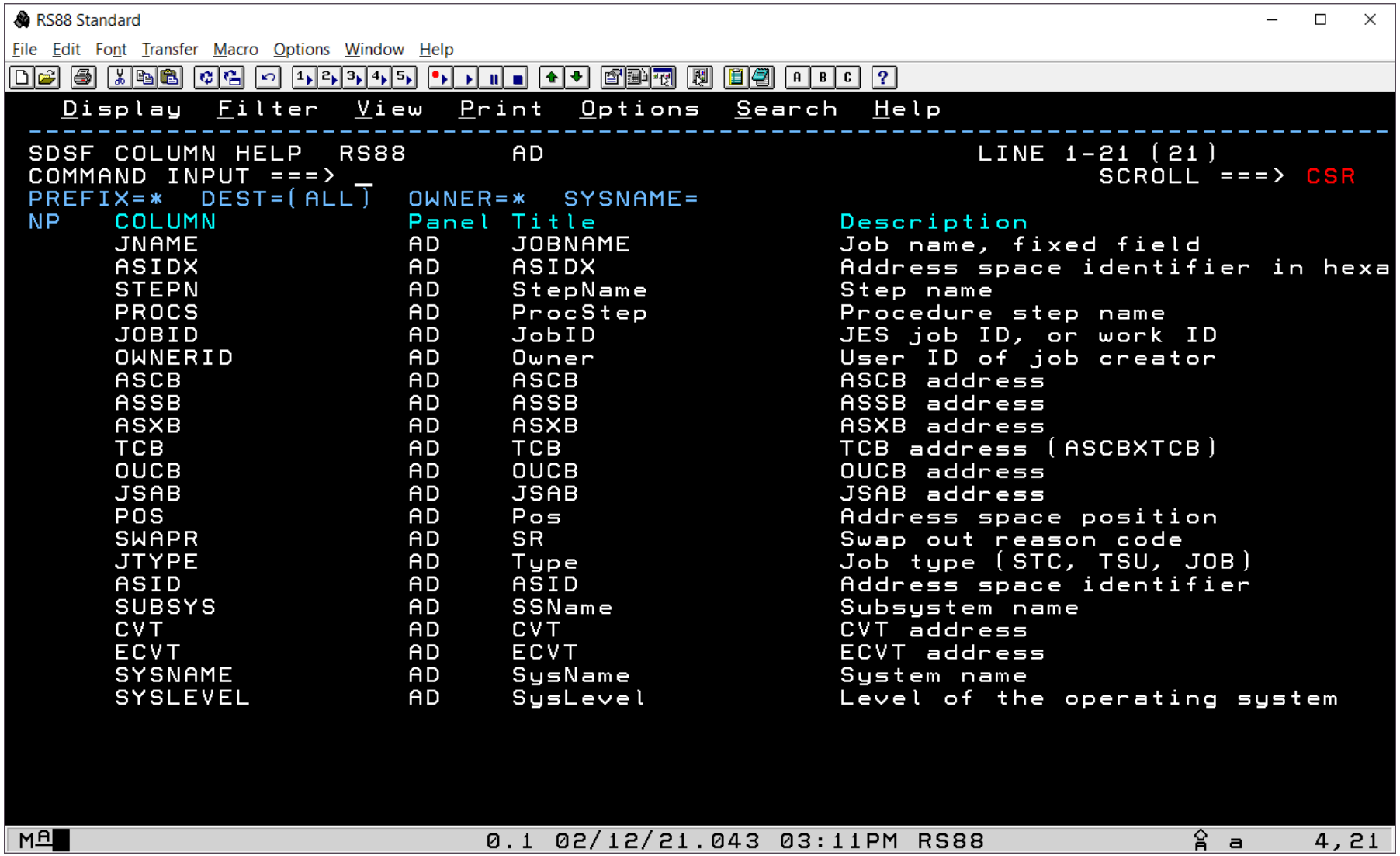
COLH – Column Help Panel



COLSHELP command (COLH) converted from ISPF table display to internal SDSF command.

Contents derived from running product meta data

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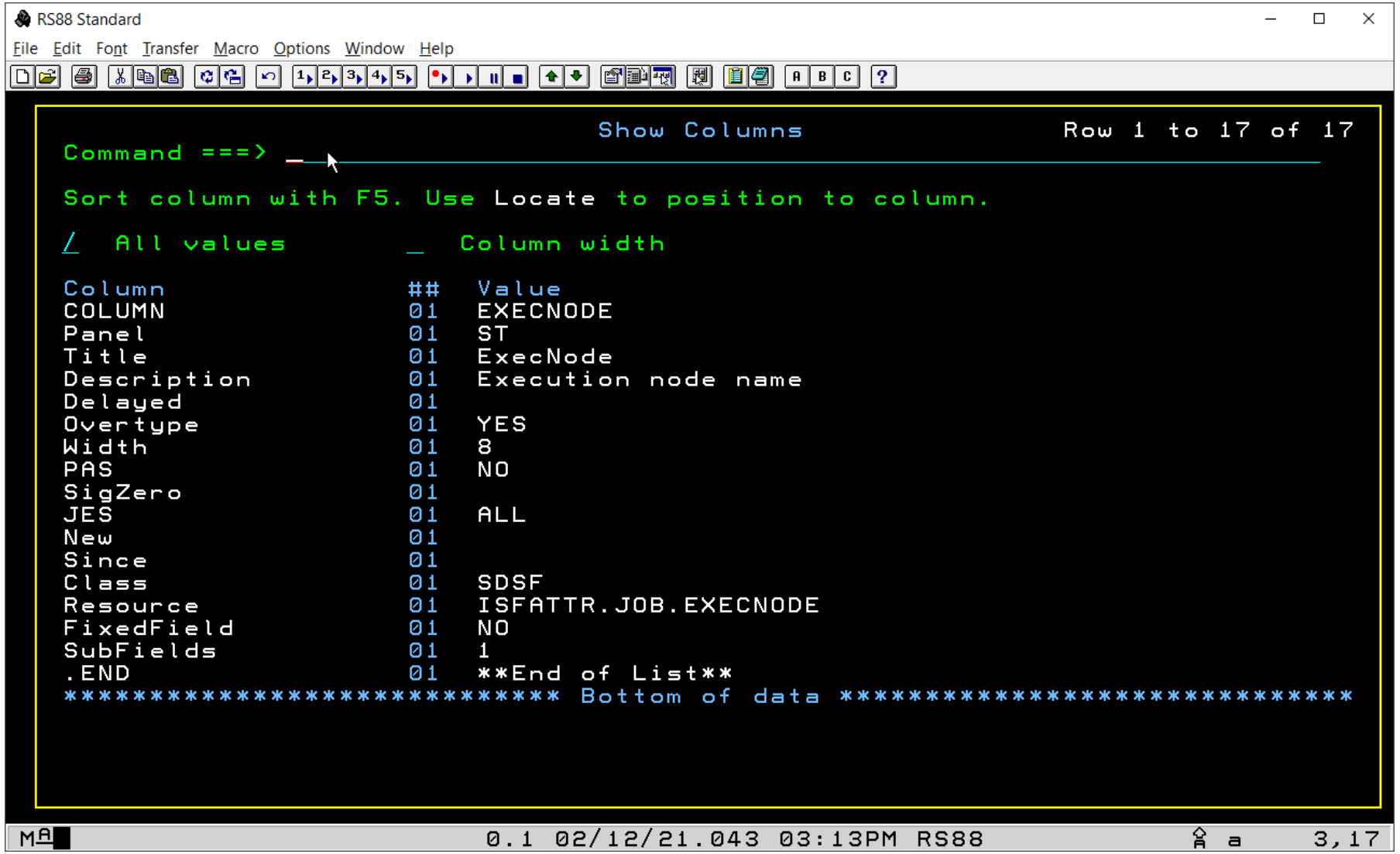
COLH Panel Columns



Attributes include if the column is valid for overtype and the SAF resource that protects it

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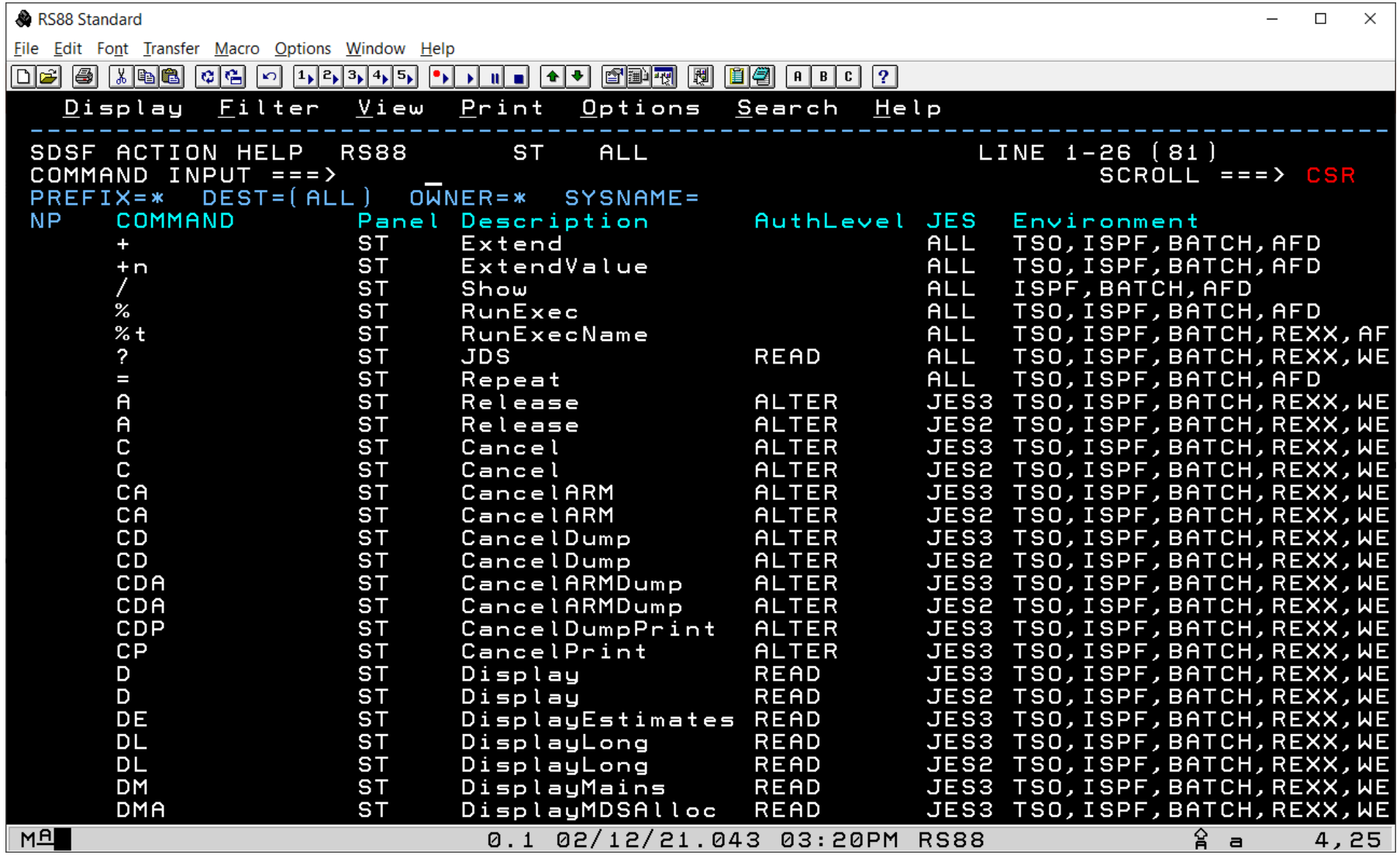
ACTH – Action Help



New command to show the attributes for each action on an SDSF panel

Includes valid environments, JES and security resources.

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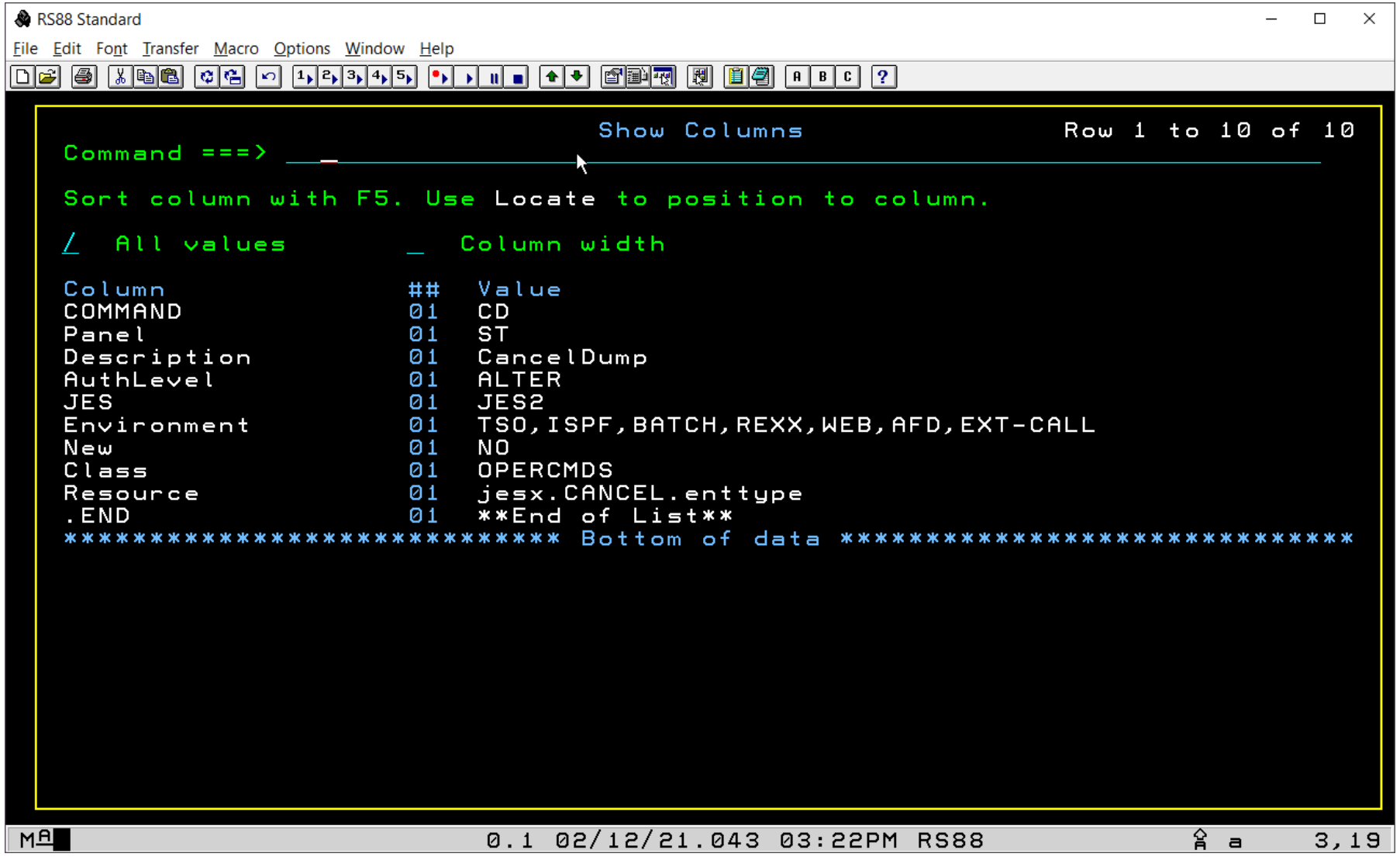
ACTH Panel Columns



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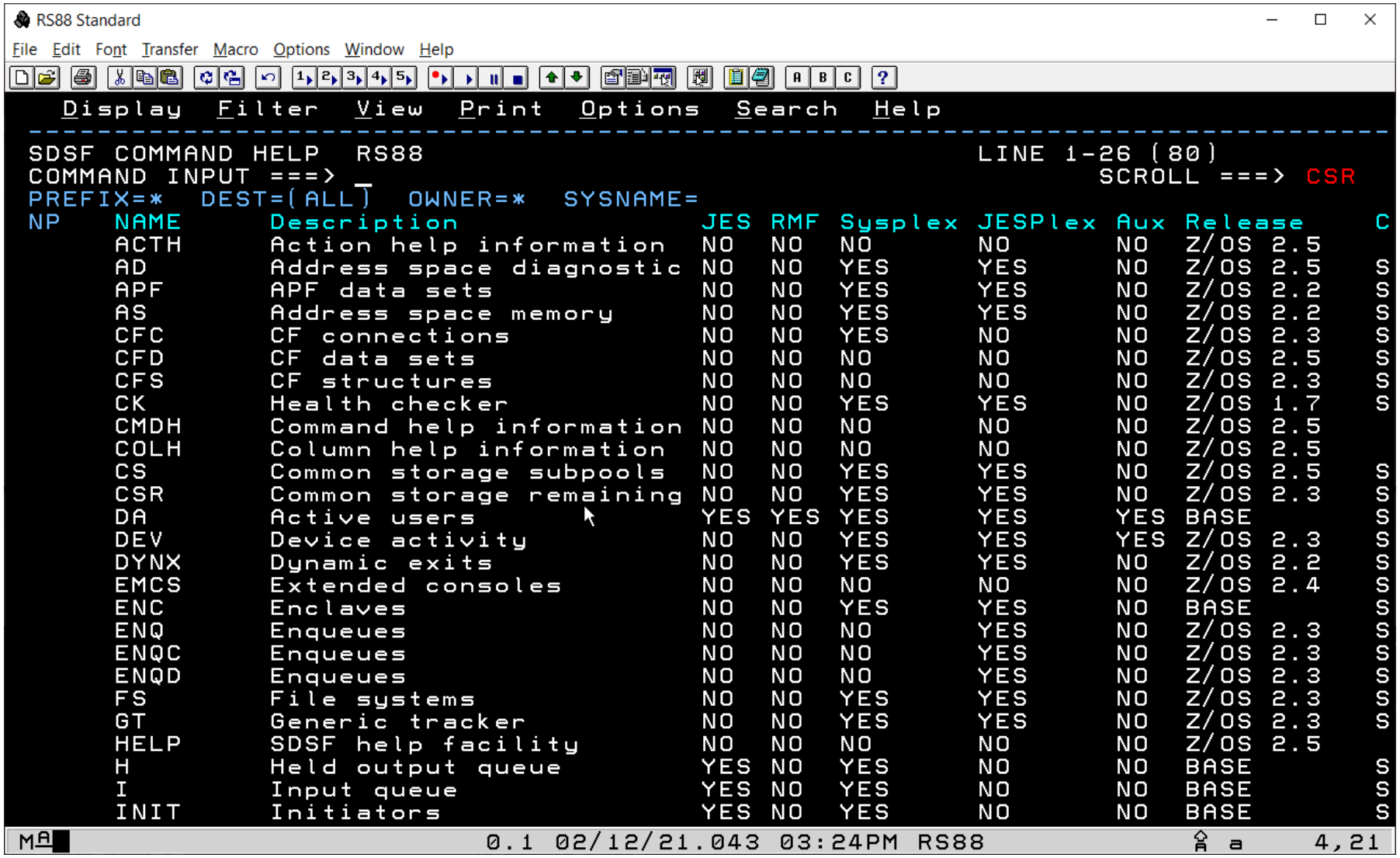
CMDH Panel



Shows attributes for SDSF commands that result in tabular panels

Dependencies on SDSFAUX, RMF and JES shown

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CMDH Panel Columns

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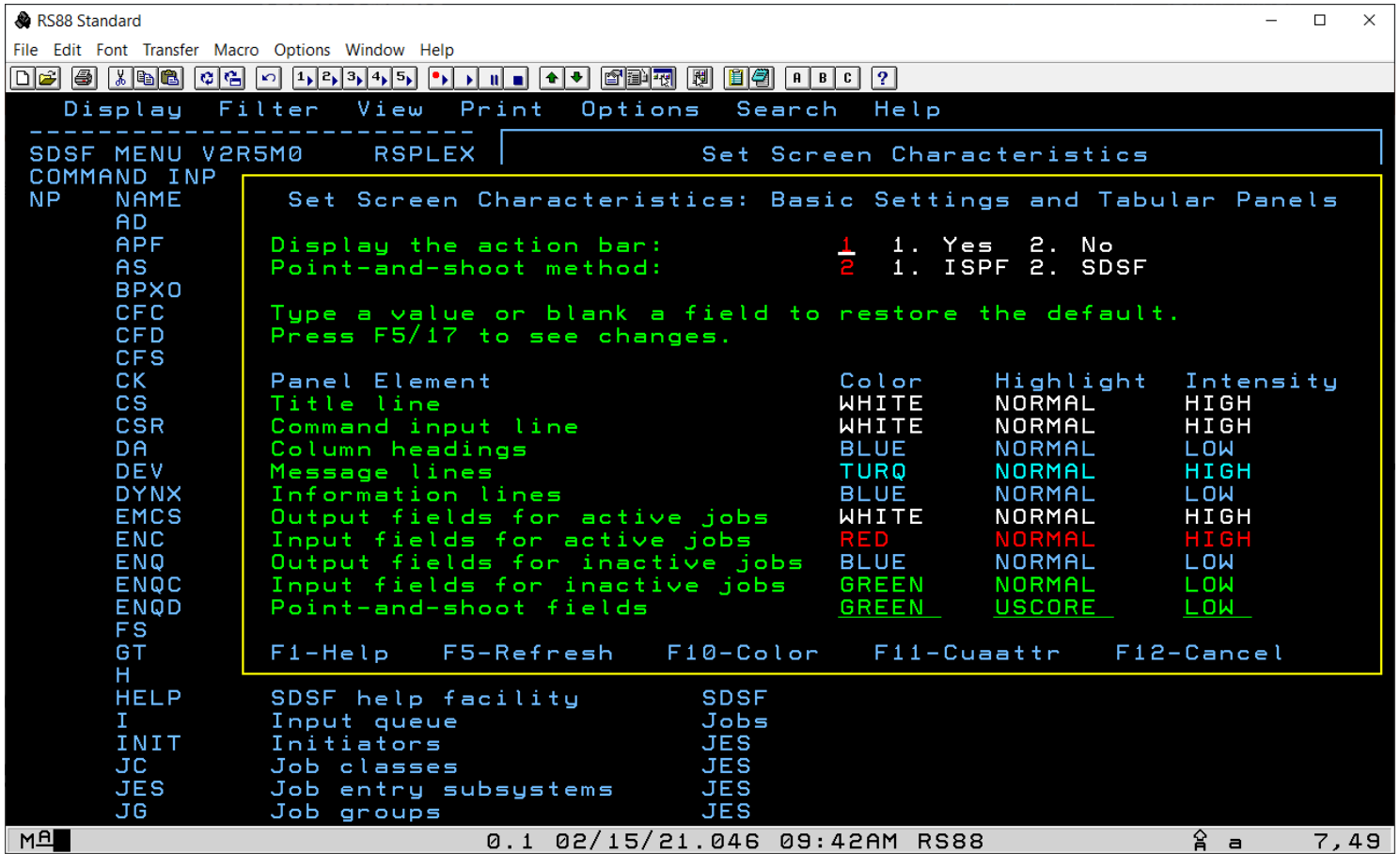
Useability Enhancements

- Point-and-shoot for memory addresses
  - Default green underlined attribute
  - Can be changed using SET SCREEN command
  - Can use ISPF CUA attributes if desired



Useability Enhancements

- LOG Positioning
  - Initial entry into LOG panel now attempts to show both outstanding WTORs and latest messages
  - Previous behaviour just displayed outstanding WTORs and the user has to scroll backwards to see messages
- Wide screen z/OS operator command
  - Single line input for the slash “/” popup panel when running 34x141 or greater
  - Allows for easier manipulation of long operator commands
- All SWB fields now updatable from the JDS panel (“?”)
  - The “Q” action that produced the Output Descriptors (OD) display no longer required

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z/OSMF Plug-In Enhancements

- Plug-in has been completely rewritten with new look-and-feel
- Cleaner graphics and tables
- New panels
  - Job groups
  - OMVS options
  - System parameters
  - Link list sets
  - System information
  - SMS volumes
  - File systems

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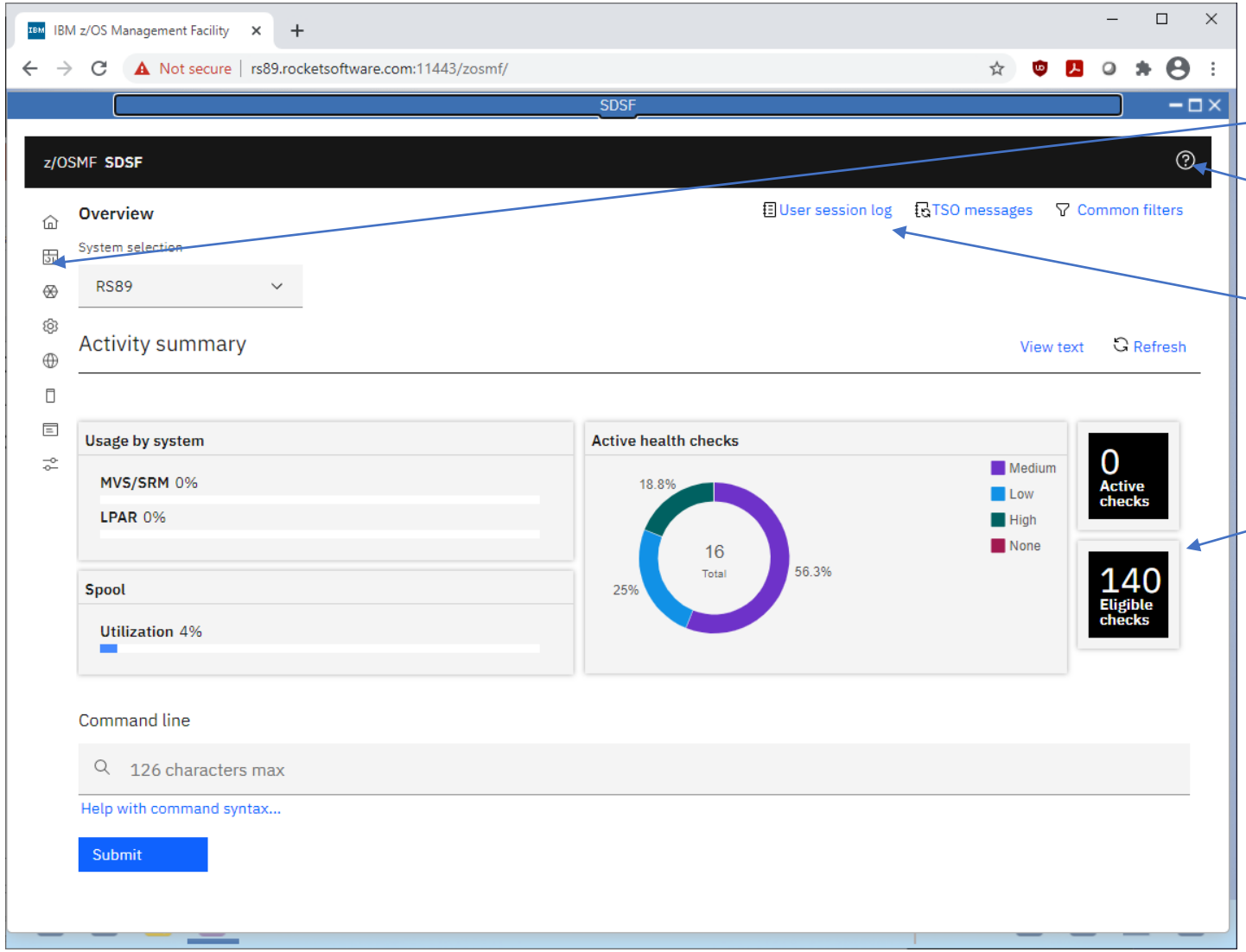
z/OSMF Plug-In Enhancements



Panel selection

Context sensitive help

ULOG link

New graphics

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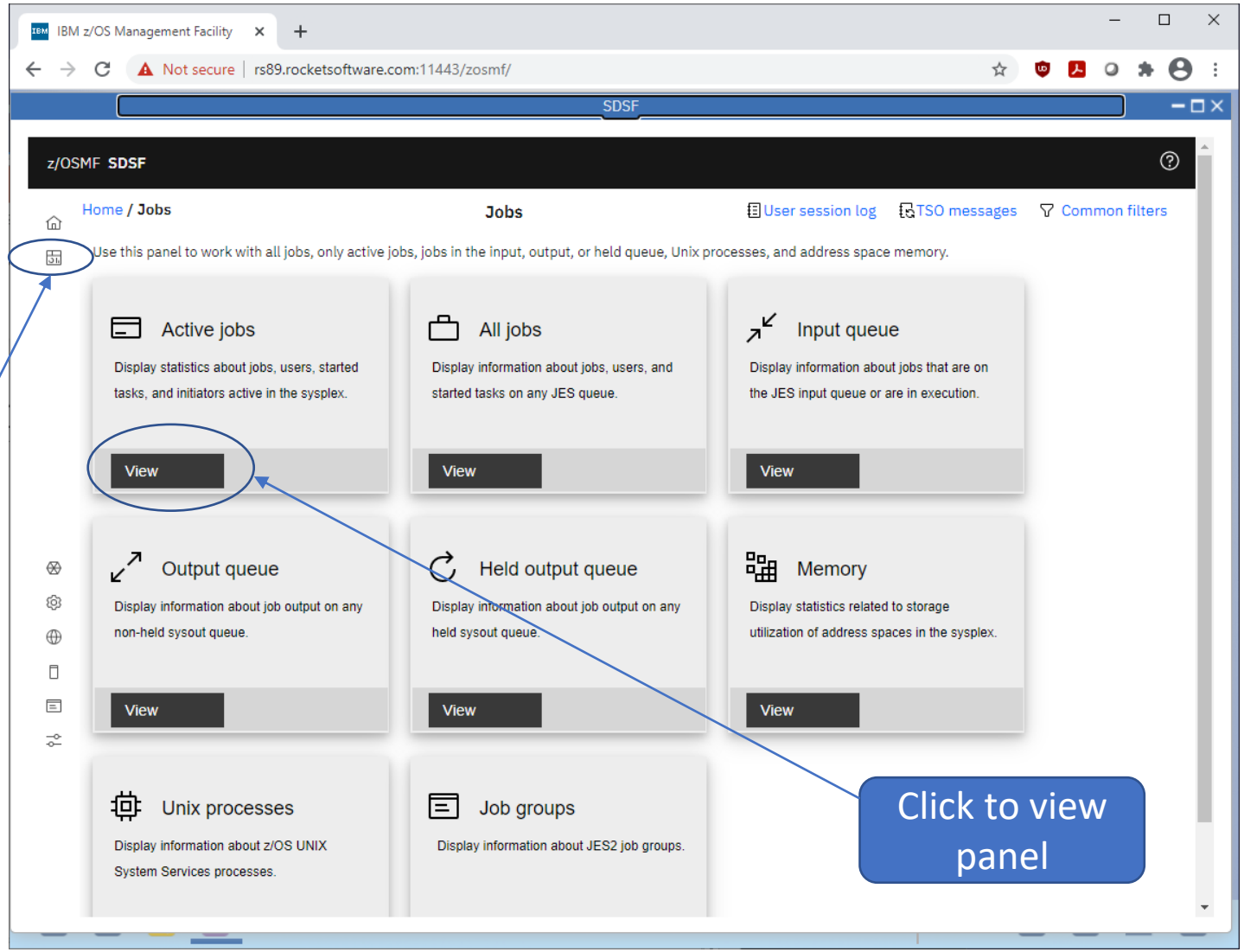
z/OSMF Plug-in Jobs View

Click Jobs icon to view the panel tiles



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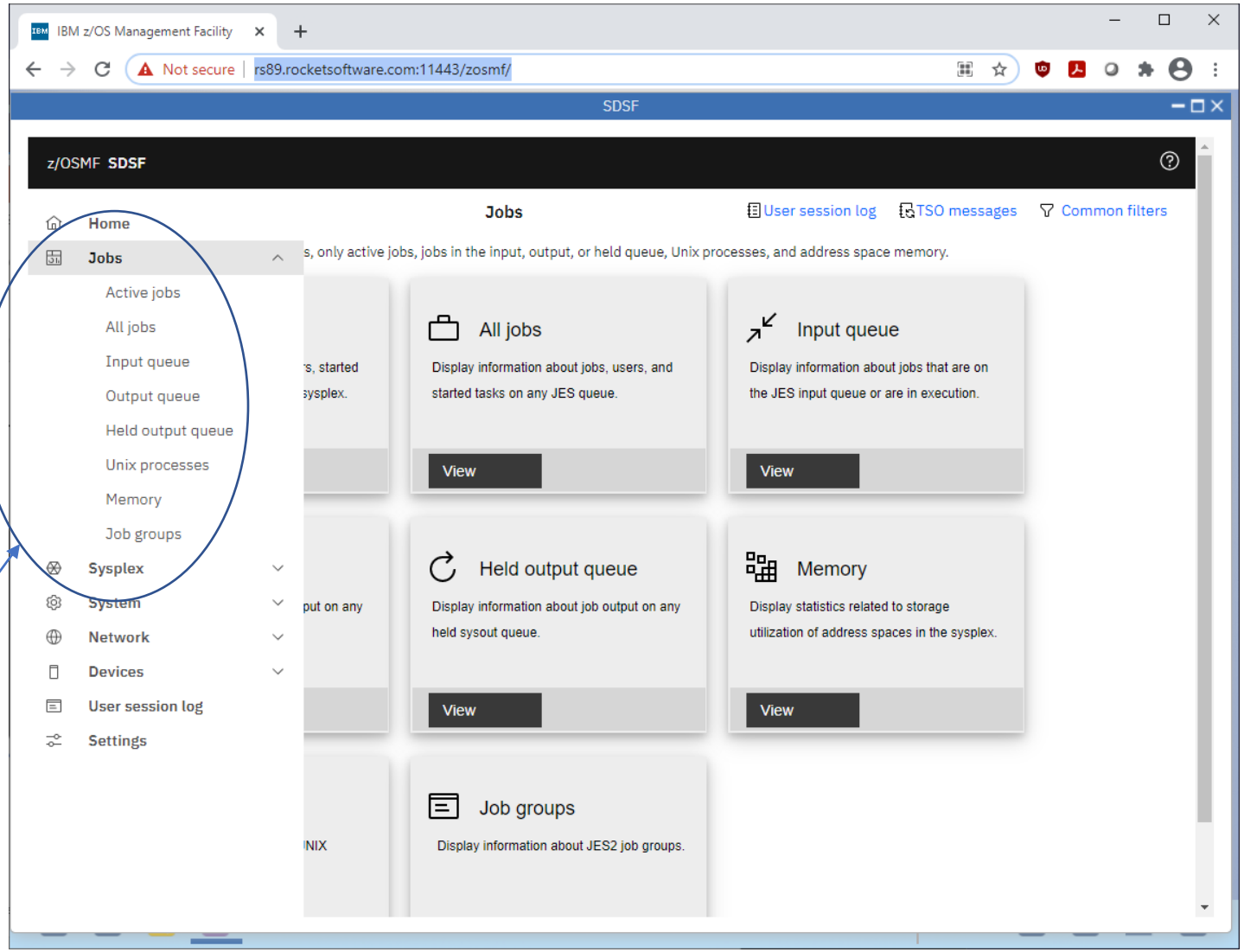
z/OSMF Plug-in icon expansion

Hover over icons to select panel directly



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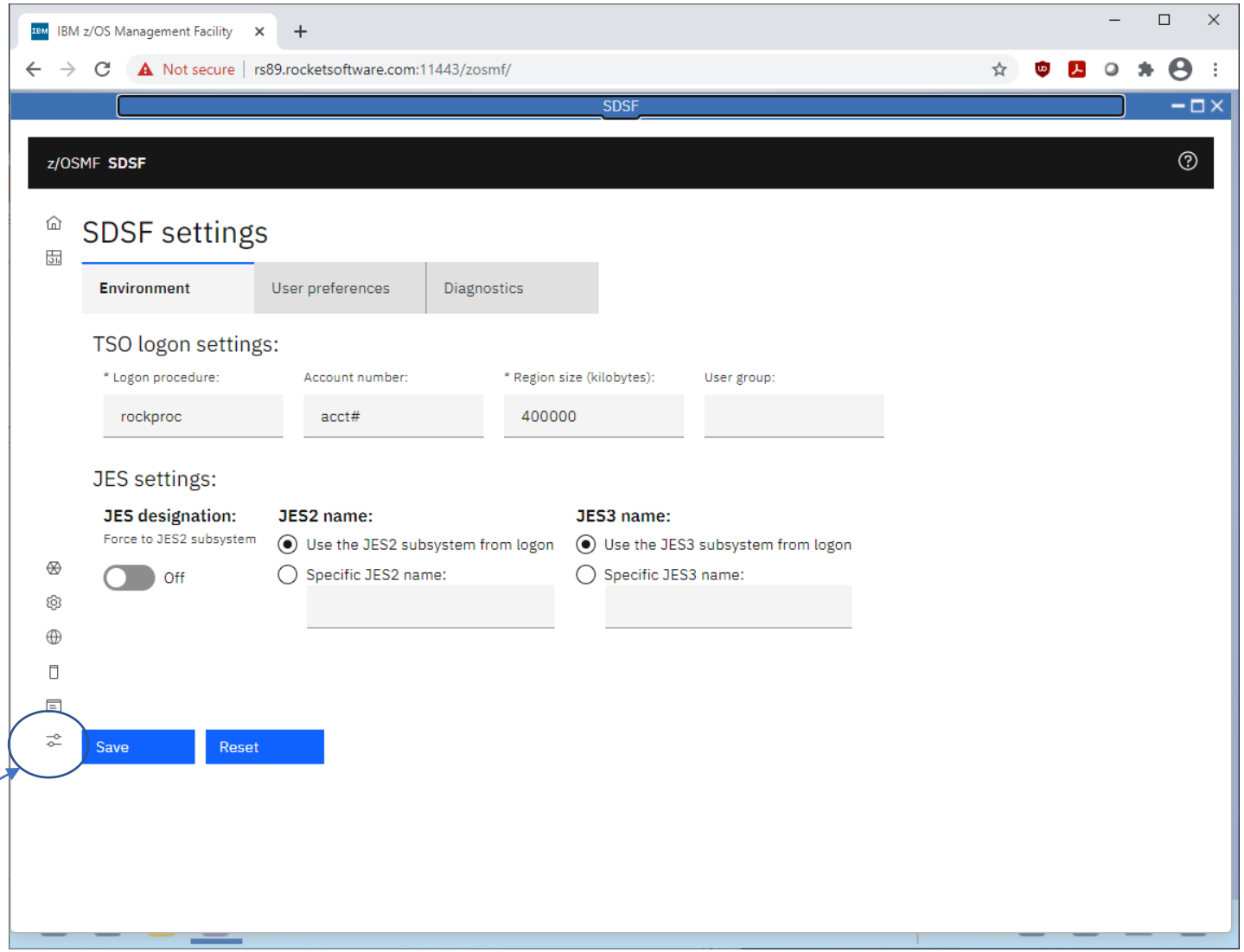
z/OSMF Plug-in Integrated Settings

Access settings through icon (separate desktop application removed)



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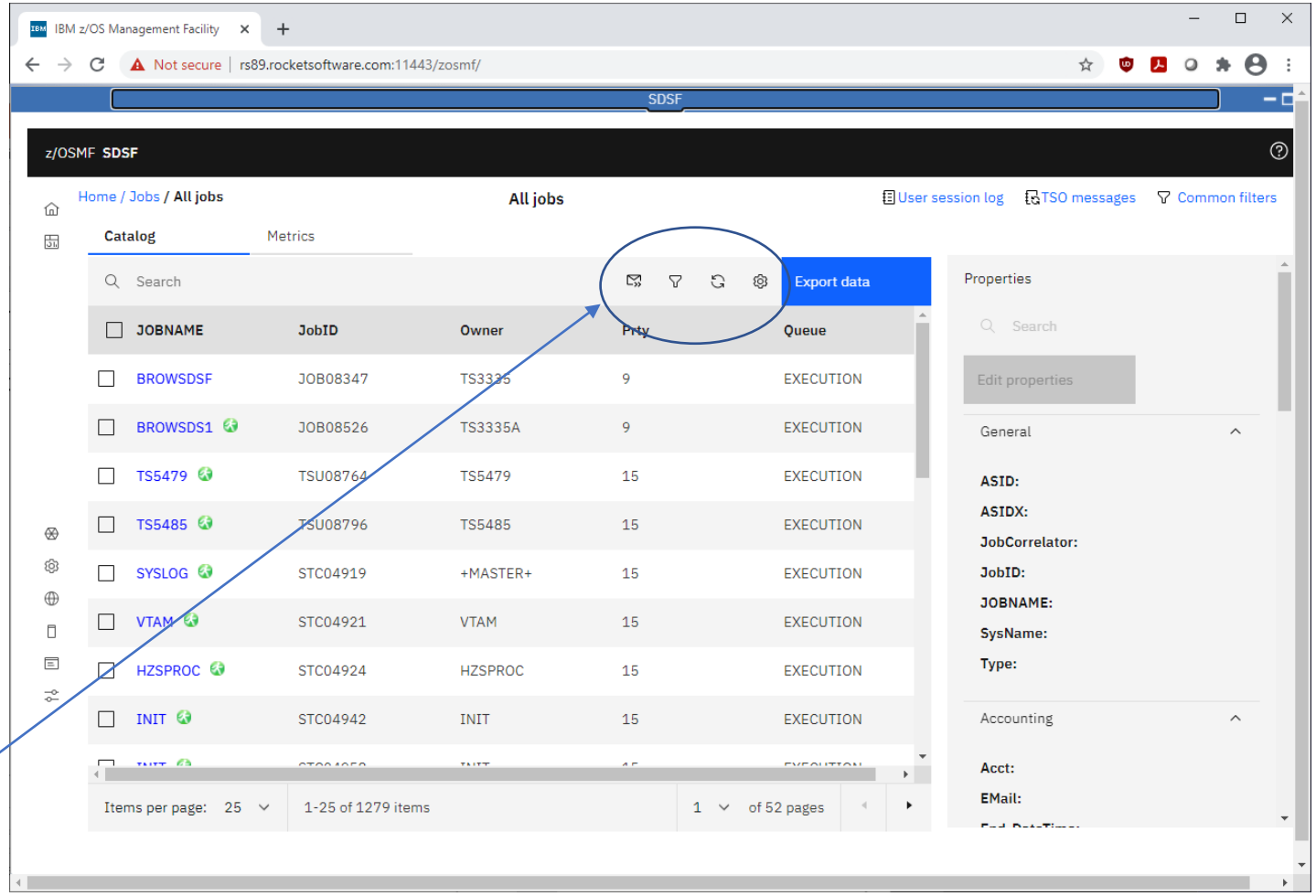
z/OSMF Plug-in Panel Layout

Controls (filter, settings, refresh)



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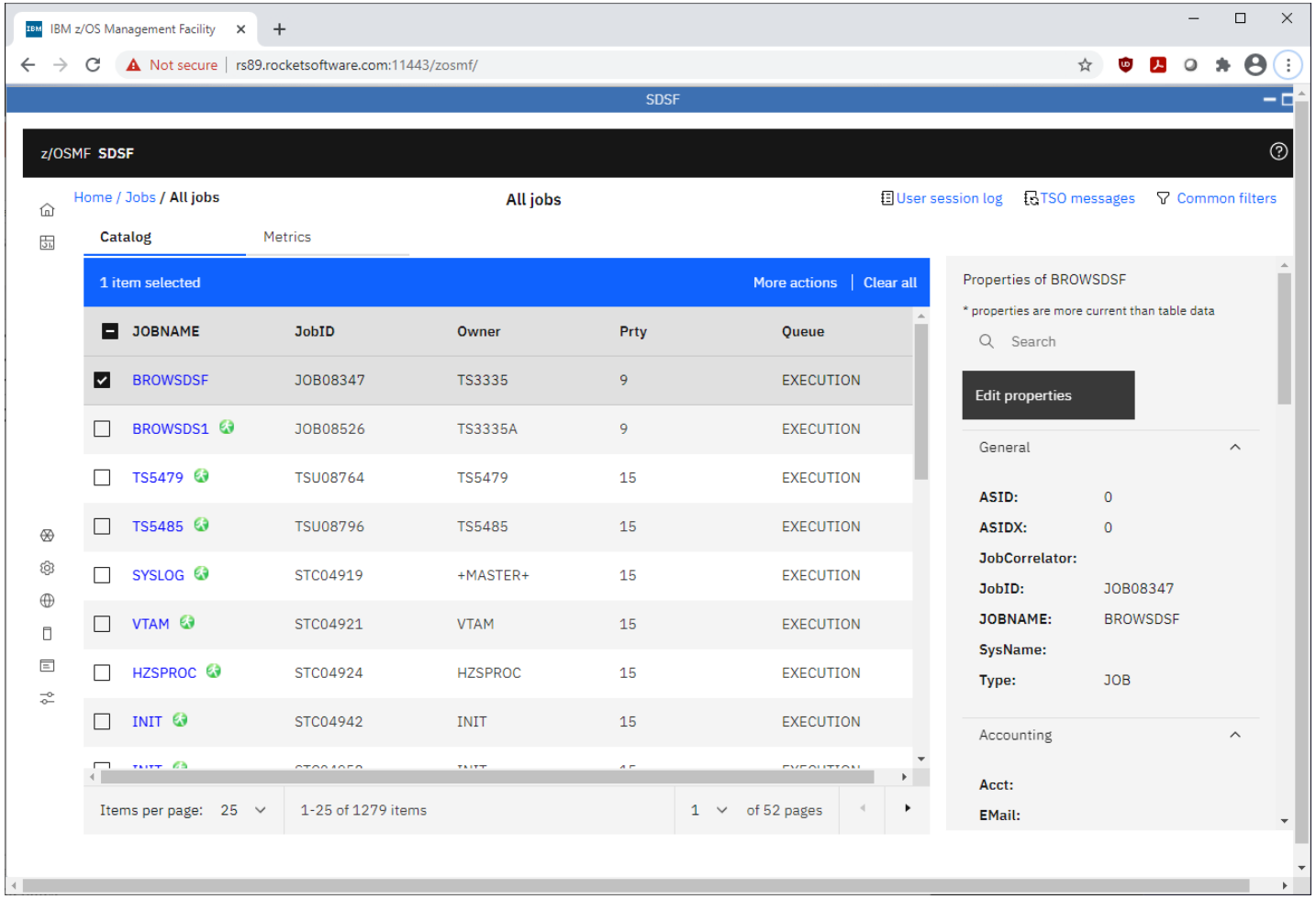
z/OSMF Plug-in Panel (Selected Row)



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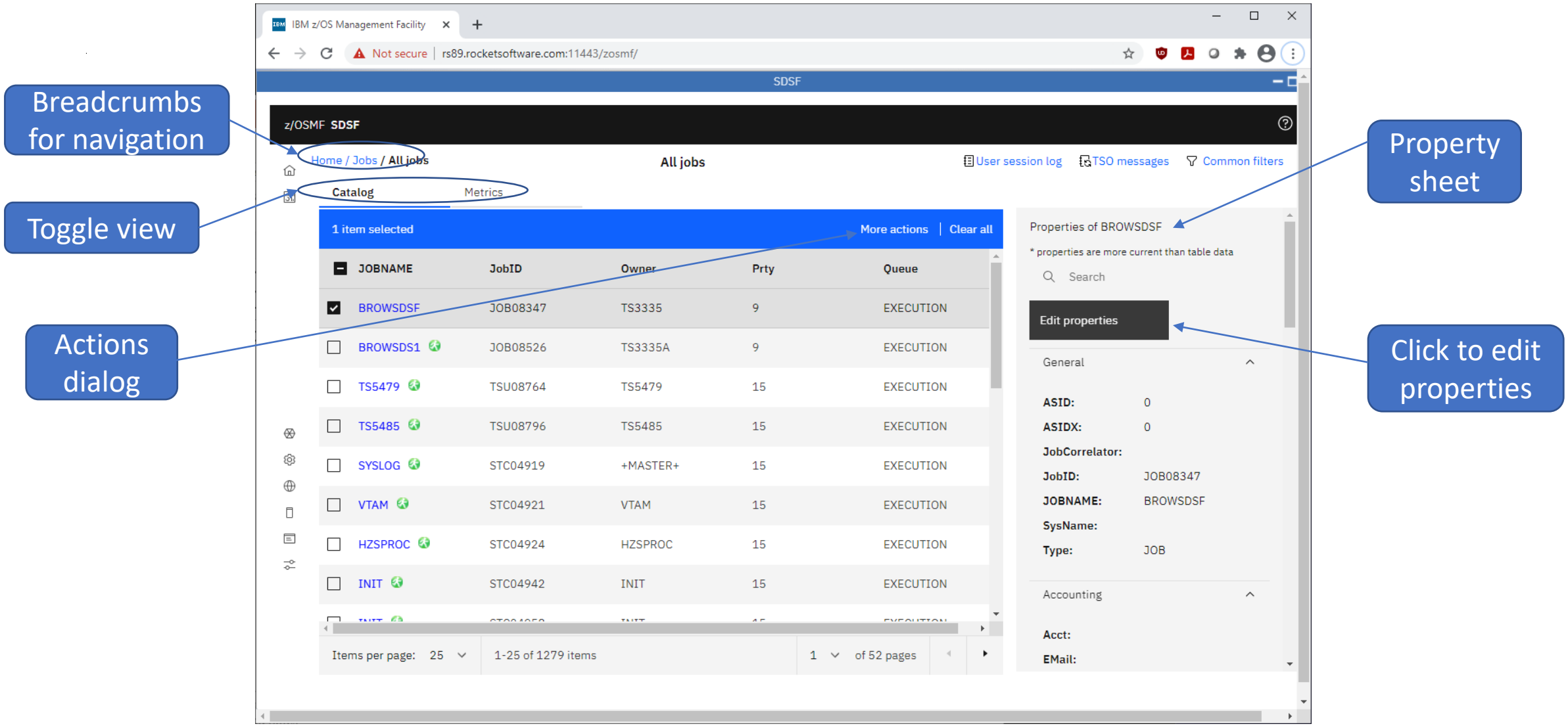
z/OSMF Plug-in Panel Layout (Selected Row)



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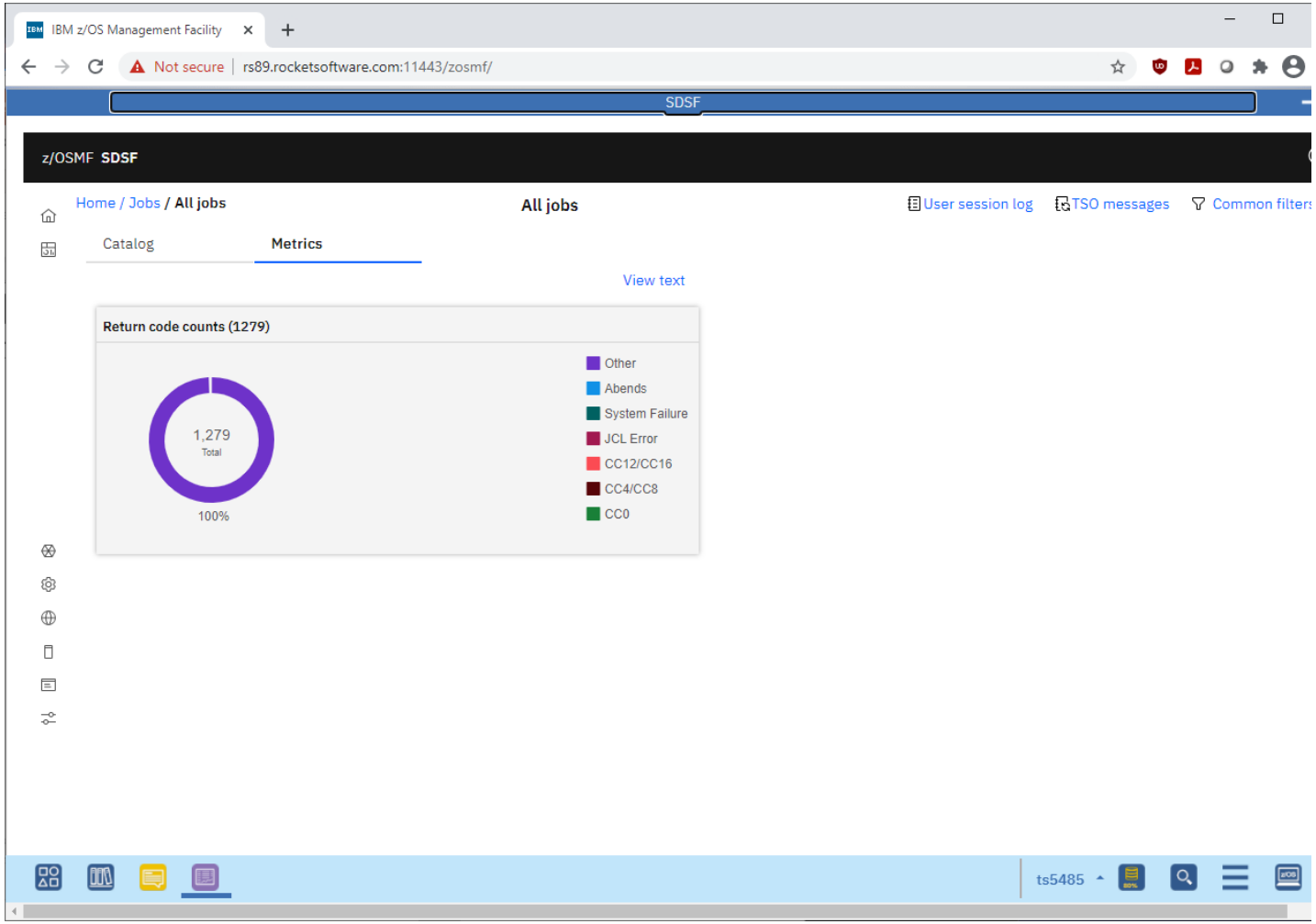
z/OSMF Plug-in Metrics



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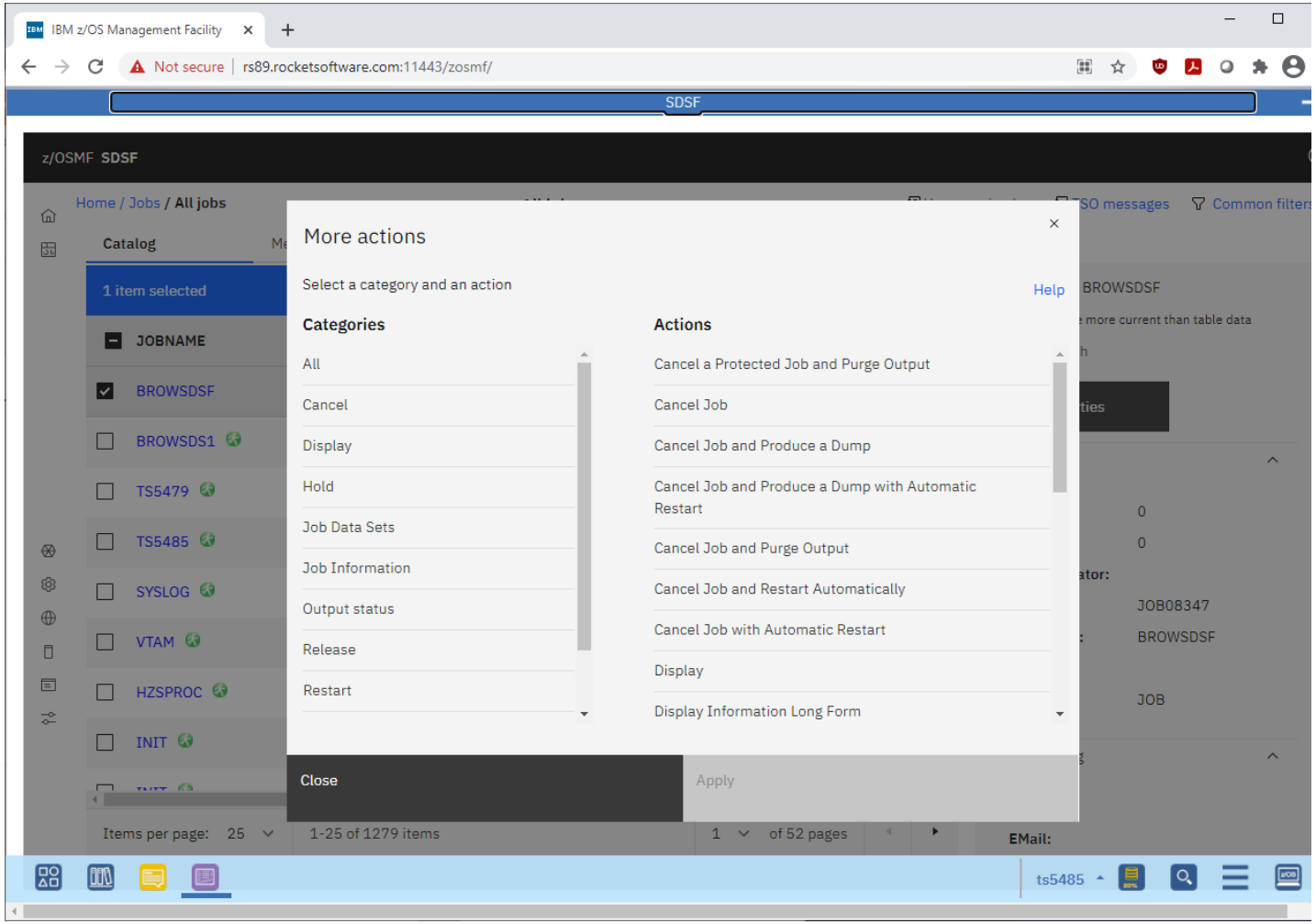
z/OSMF Plug-in Actions Dialog



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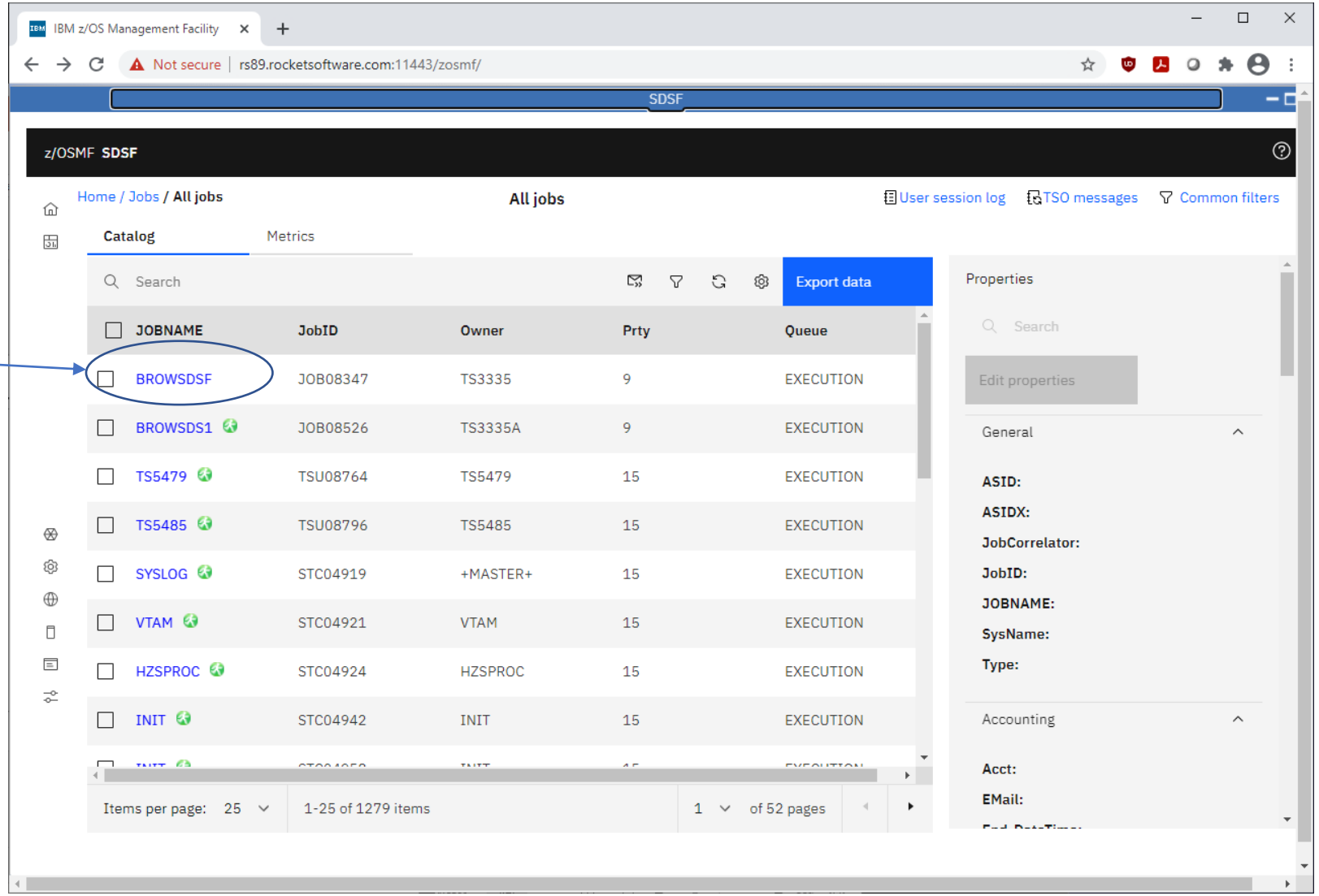
z/OSMF Plug-in Browse Panel

Click the link



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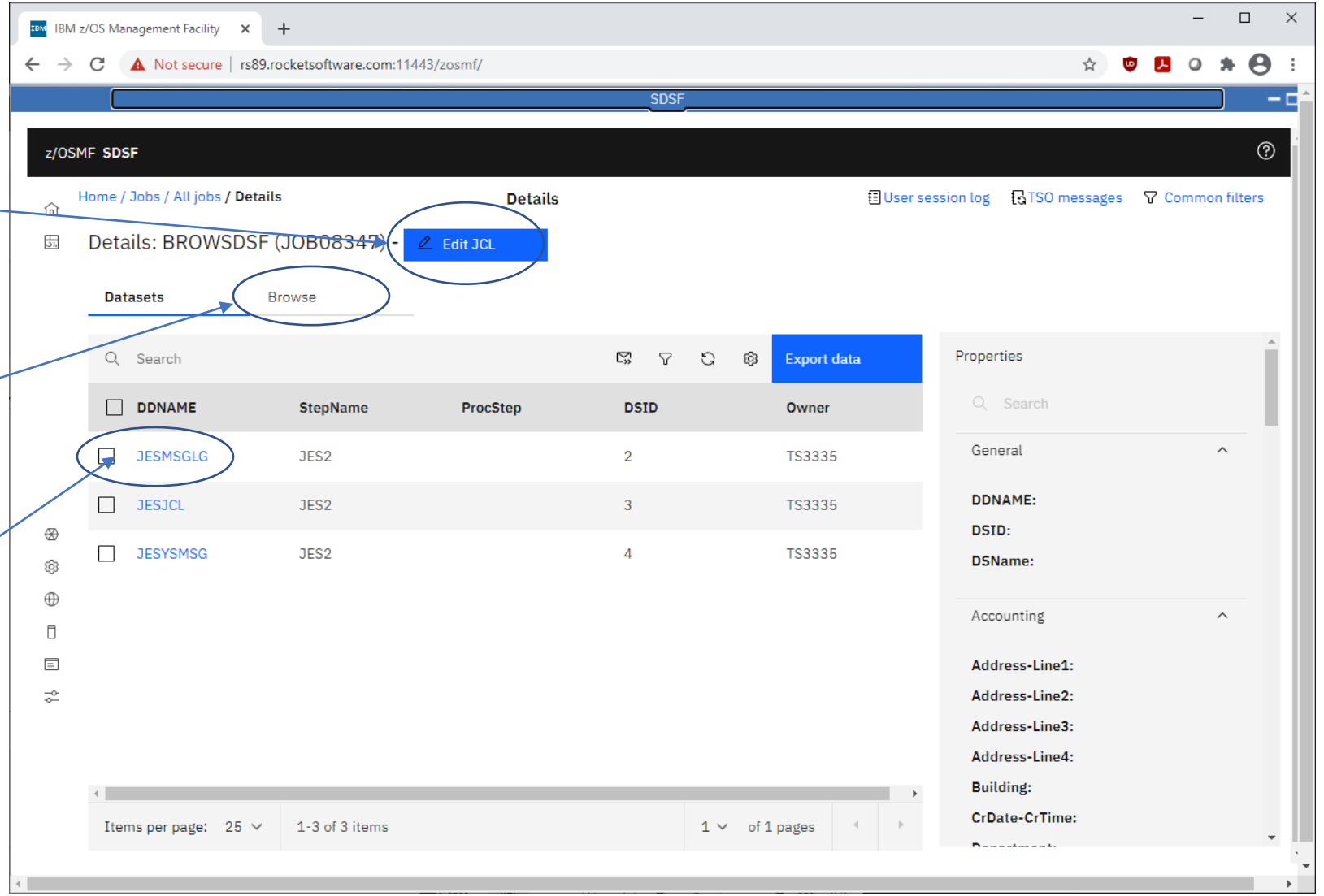
z/OSMF Plug-in Browse Panel

Click button to edit JCL and resubmit

Click tab to browse entire job

Click the link to view single data set



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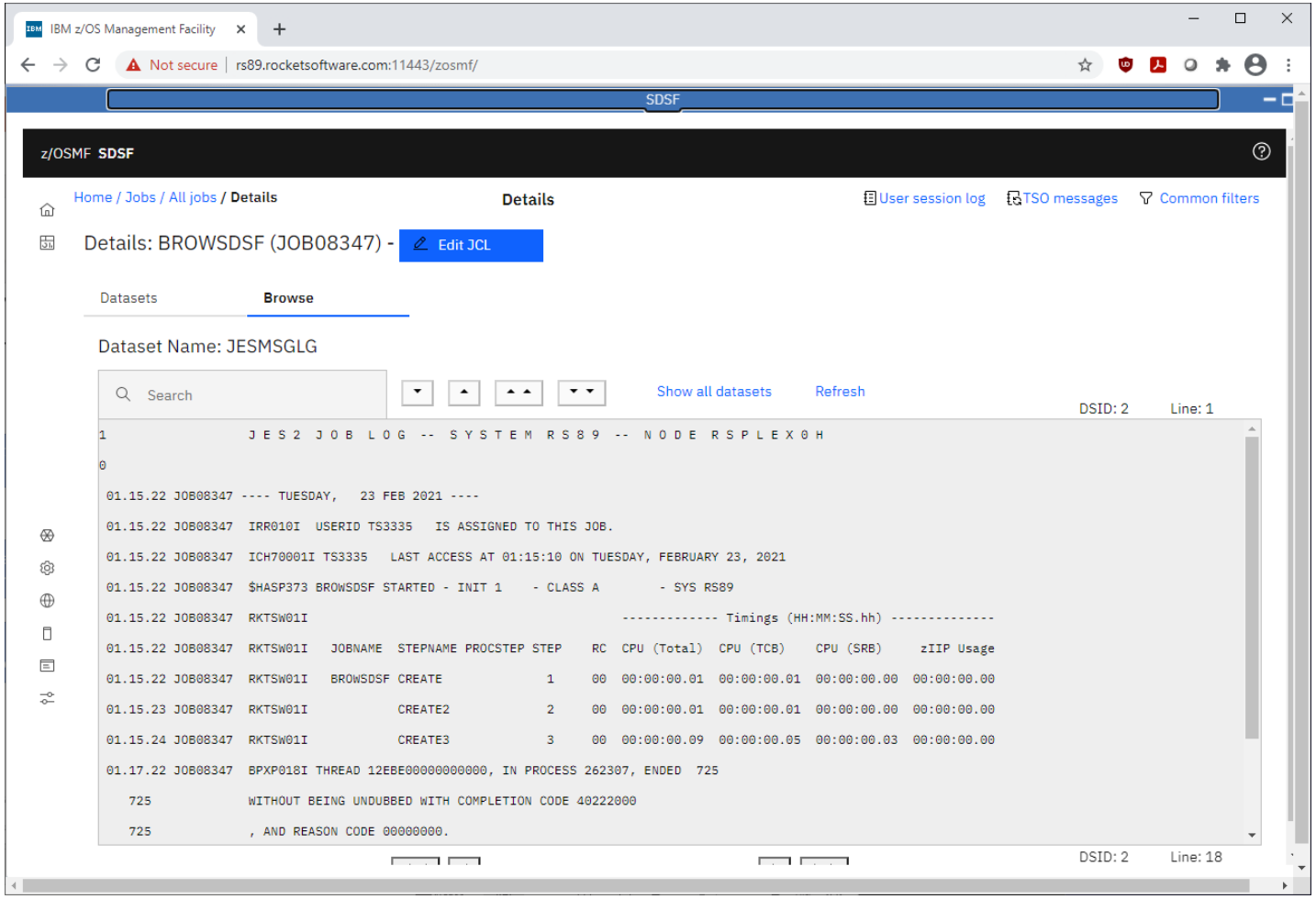
z/OSMF Browse Data Set



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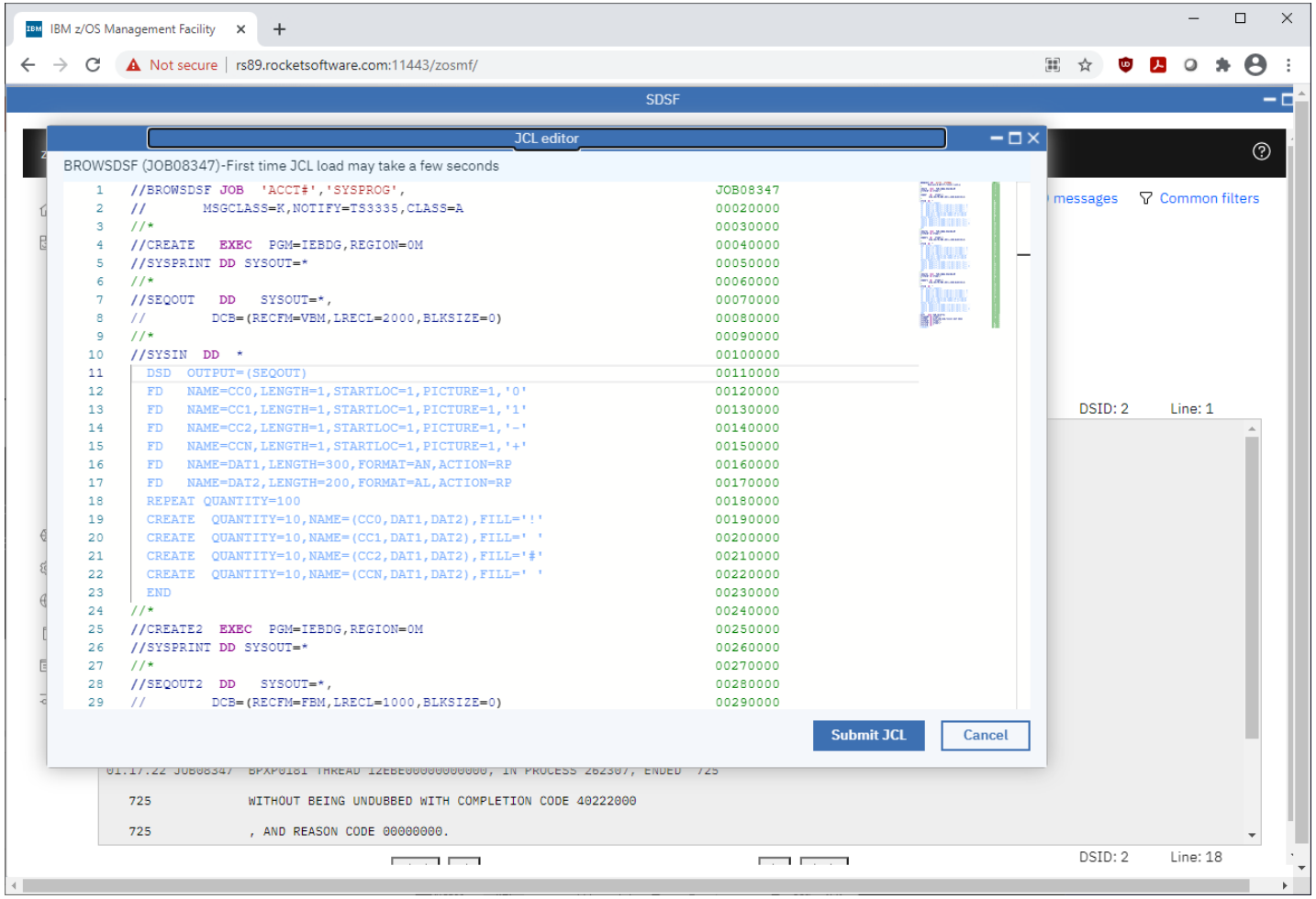
z/OSMF Plug-in JCL Editor



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Upgrade & Coexistence Considerations

- Toleration APARs for 2.3 and 2.4 :
  - PH29560 – can be installed at any time
  - Needed for sharing ISFPRMxx and data gatherer compatibility
- Migration considerations
  - All SDSF security is now performed by SAF
  - Legacy internal SDSF security is no longer supported
  - ISFUSER exit only invoked for INIT, TERM and PRE-SAF function codes
  - New SDSF Security Migration Guide manual
- Coexistence support
  - SDSF 2.5 is compatible with SDSF 2.3 and SDSF 2.4 in the same sysplex

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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

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Summary

- SDSF now only uses SAF for security
  - Migration may be required
  - Migration can be performed on 2.3 and 2.4 prior to implementation of SDSF 2.5
    - Strongly recommend you migrate now
  - New SDSF Security Migration Guide manual
- New SDSF functionality
  - Lots of new panels
  - Enhanced user experience
- New z/OSMF SDSF plug-in

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Appendix - Documentation

- SDSF Operation and Customization (SA24-2274)
- SDSF User's Guide (SC27-9028)
- SDSF Security Migration Guide (SC27-4942)
- SDSF REXXHELP command
  - Contains SDSF/REXX usage, syntax, and examples
- SDSF RGEN command
  - Generates starter SDSF/REXX execs and examples
- SDSF Javadoc
  - Contains SDSF/Java documentation
  - Download from /usr/lpp/java/classes/isfjcallDoc.jar
- SDSF SEARCH command
- SDSF HELP command (PF1)
  - See the "NEWIN25" section from the help index panel

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