More Ways To Manage Your z/OS With SDSF For z/OS V2R5

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Objectives

- Architectural Changes
- New SDSF Panels
- New Help and Search Interface
- Useability Enhancements
- z/OSMF Plug-In Changes
- Installation and Configuration
- Documentation and Help

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ARCHITECTURAL CHANGES

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Architectural Changes

- SDSF SVC routine removed : ICN-1770
  - SDSF client code now exclusively use PC routines to perform authorized services
- SDSF only uses SAF for security : ICN-1771
  - Significant migration actions required if you are still using internal SDSF security
  - ISFPARMS load module only loaded and used by the SDSF server if the initial ISFPRMxx member fails to activate. It is no longer referenced by SDSF client code.
  - 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
  - ISFUSER exit now only called for INIT, TERM and PRE-SAF
    - CMDAUTH, DSPAUTH and POST-SAF no longer driven
    - Review any ISFUSER source code carefully

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NEW SDSF PANELS

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New SDSF Primary Panels

- AD Address space diagnostics
- CFD Couple data sets
- CS Common Storage Subpools
- LLS Link List Sets
- MEM Memory Browse
- PC PC Routines (System LX)
- 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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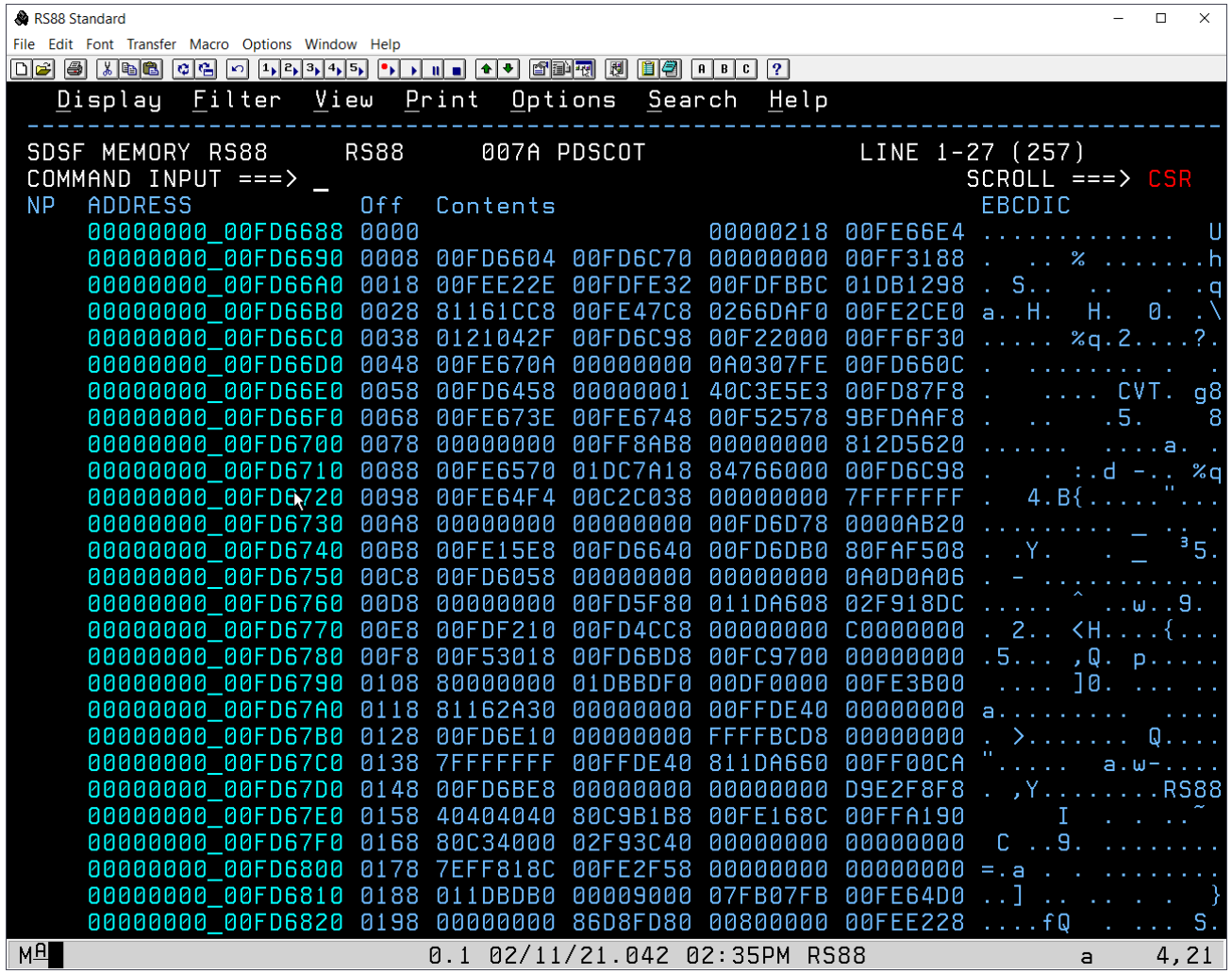
MEM Panel



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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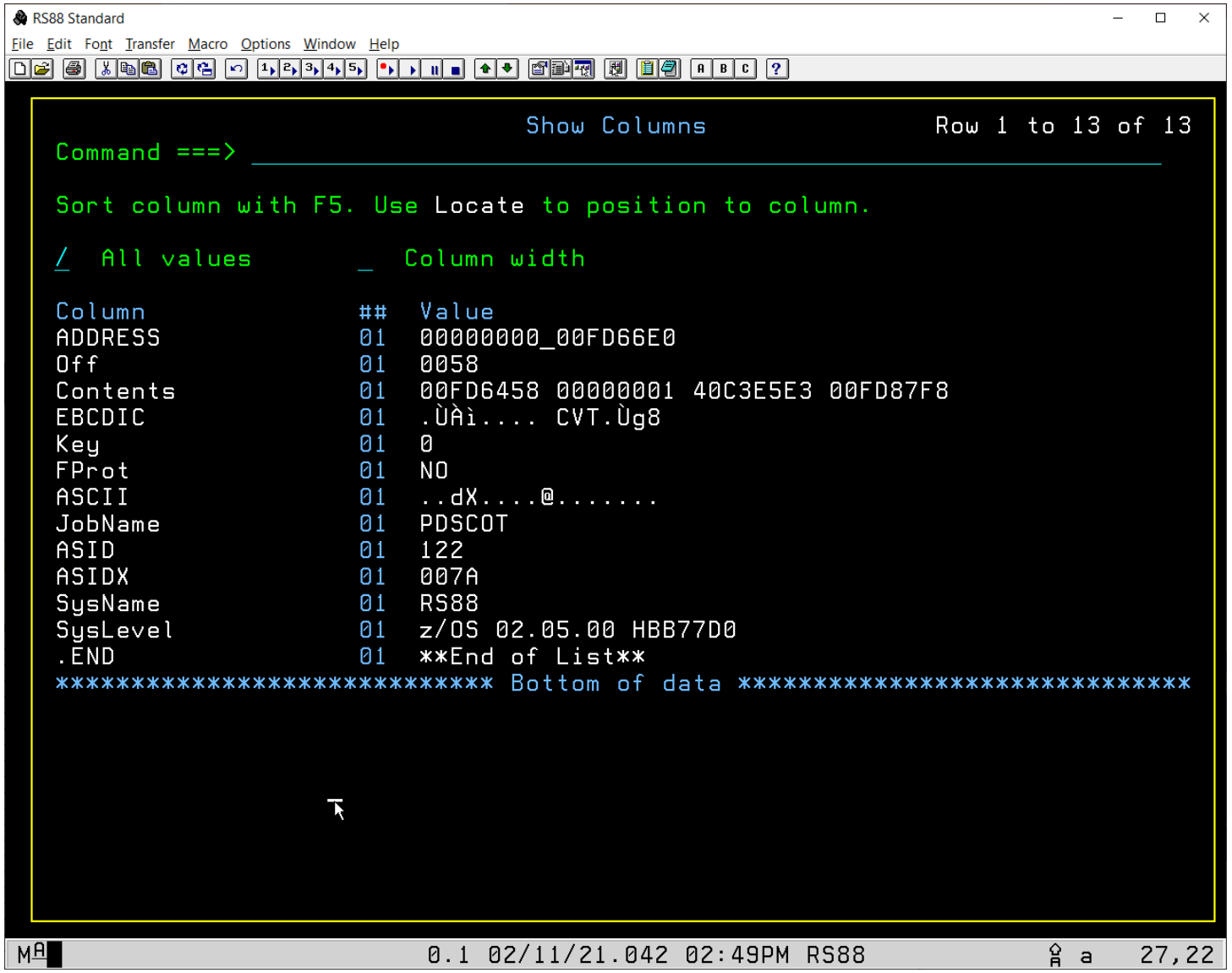
MEM Panel - Columns



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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 "++++++++"
  - Common storage access owner defaults to home address space if the ASID keyword is not specified.
- 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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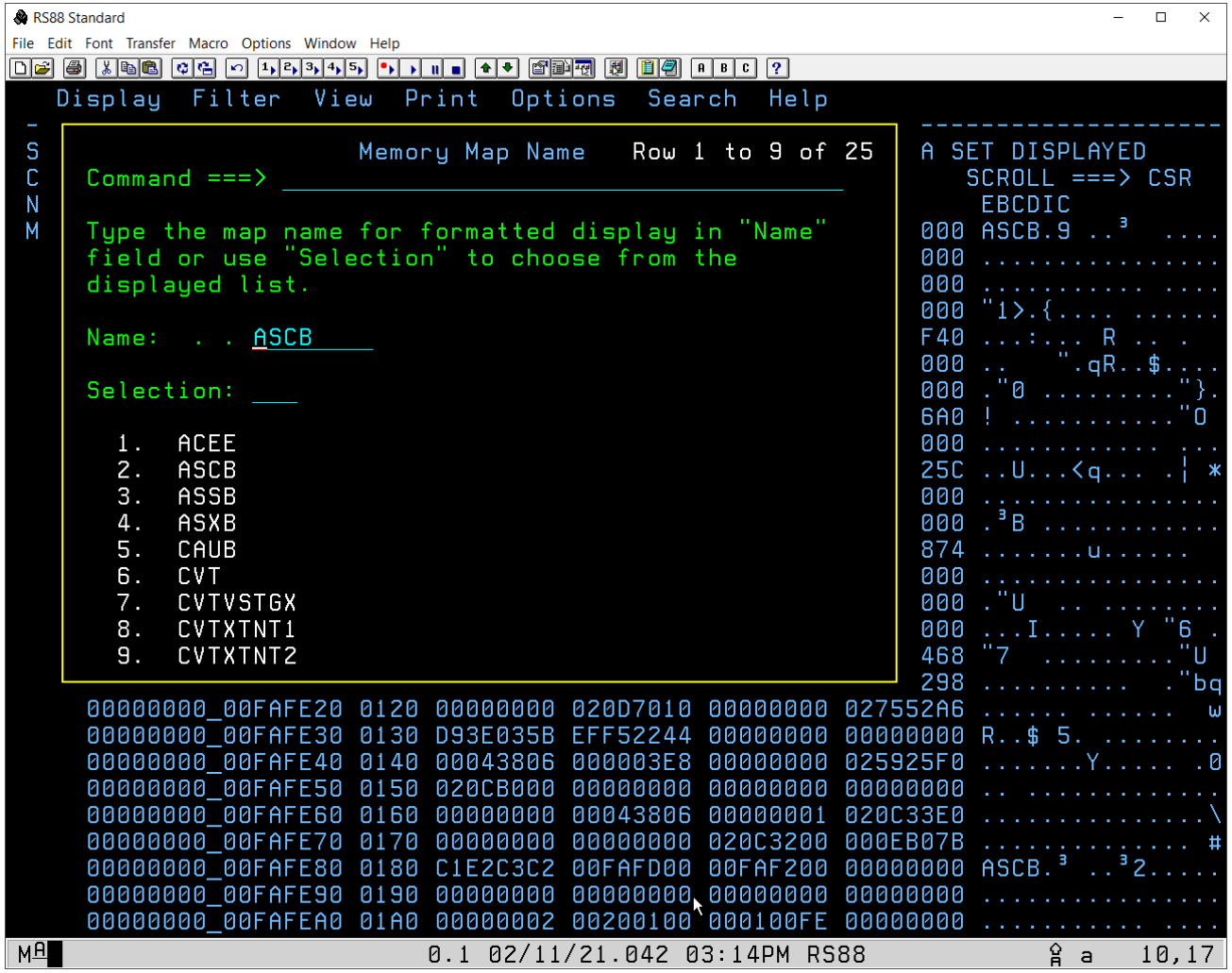
MEM Panel – Structure Format



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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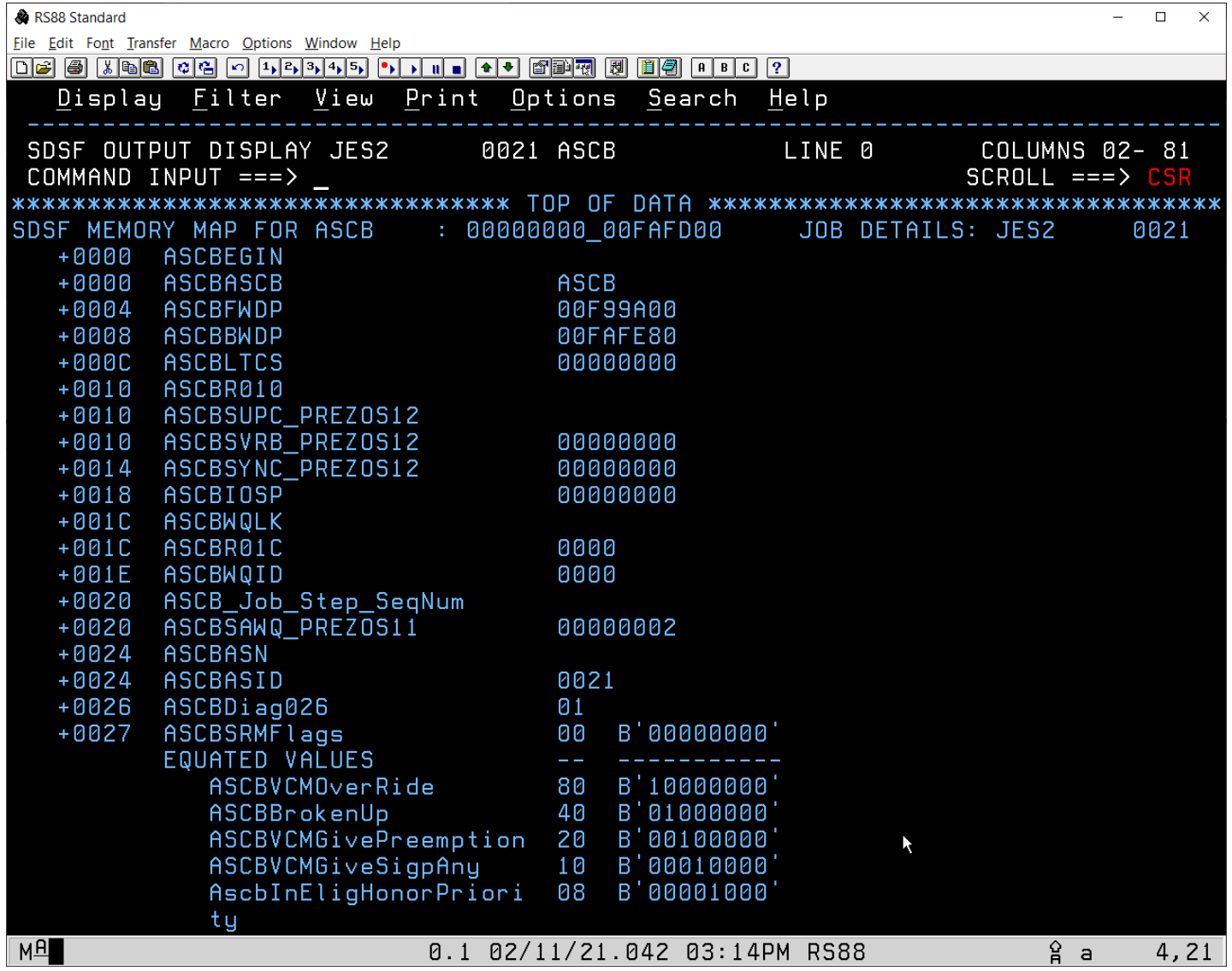
MEM Panel – Structure Format



Additional functionality

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

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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

MA   0.1 02/11/21.042 03:36PM RS88   a   4,21

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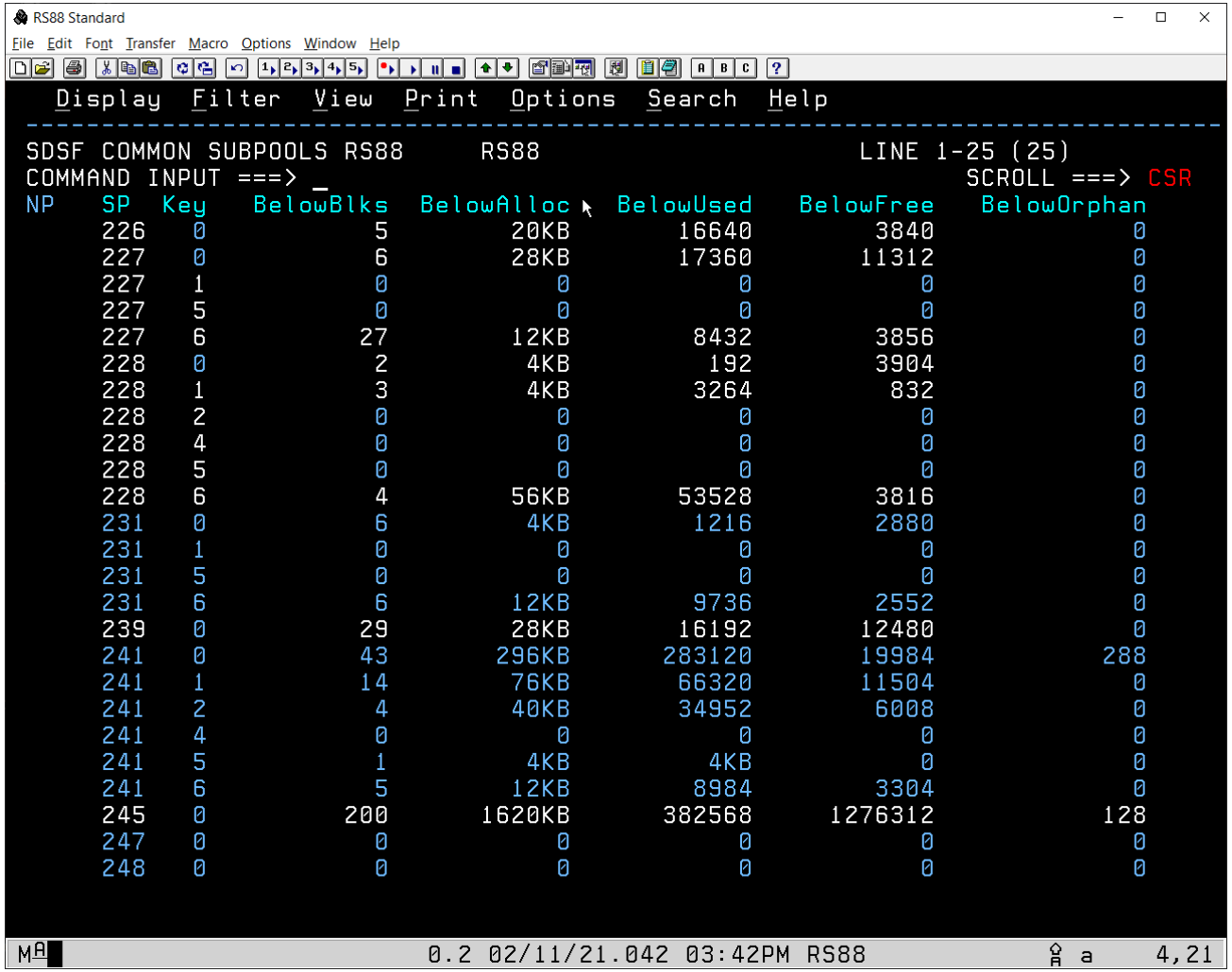
CS Panel



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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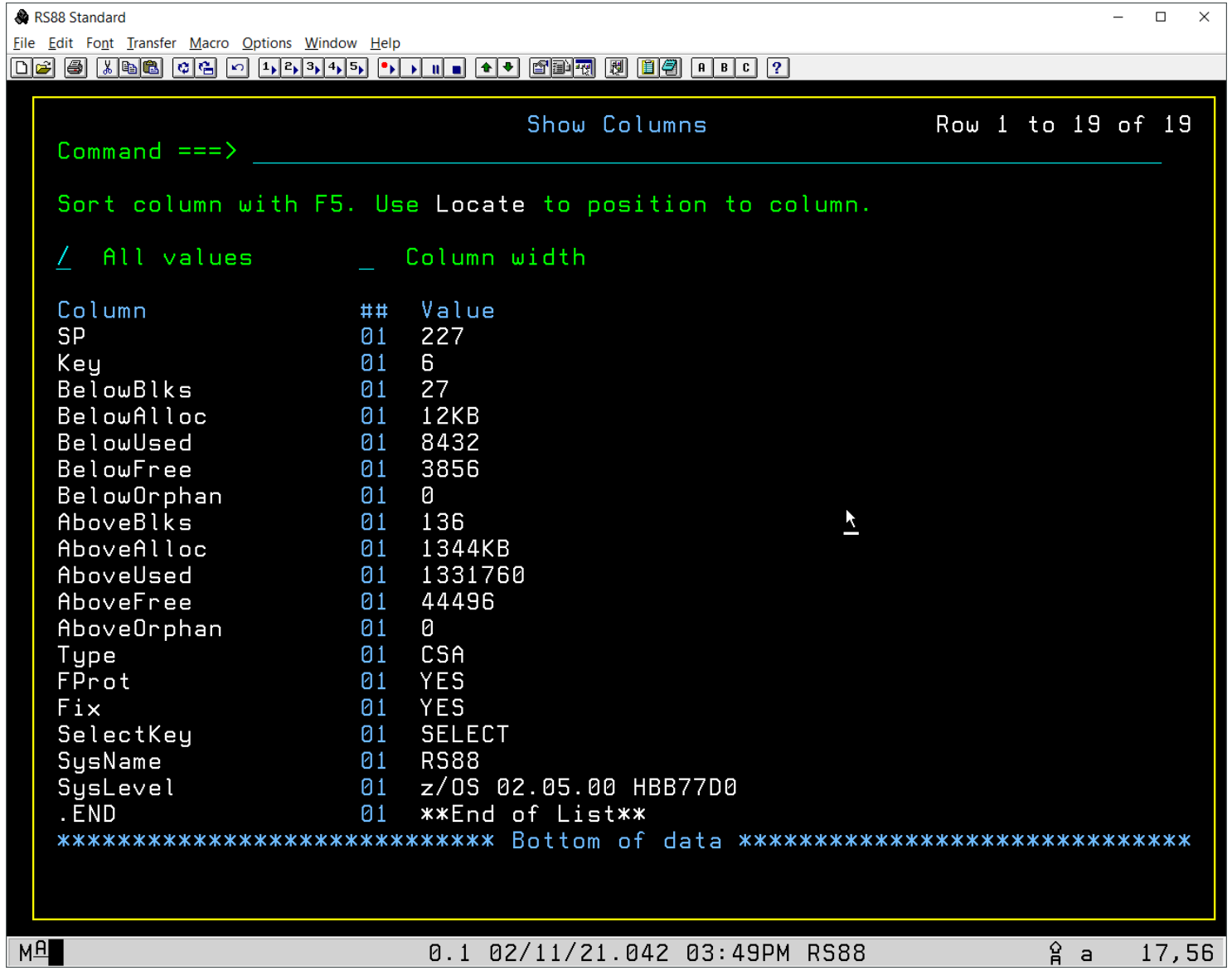
CS Panel - Columns



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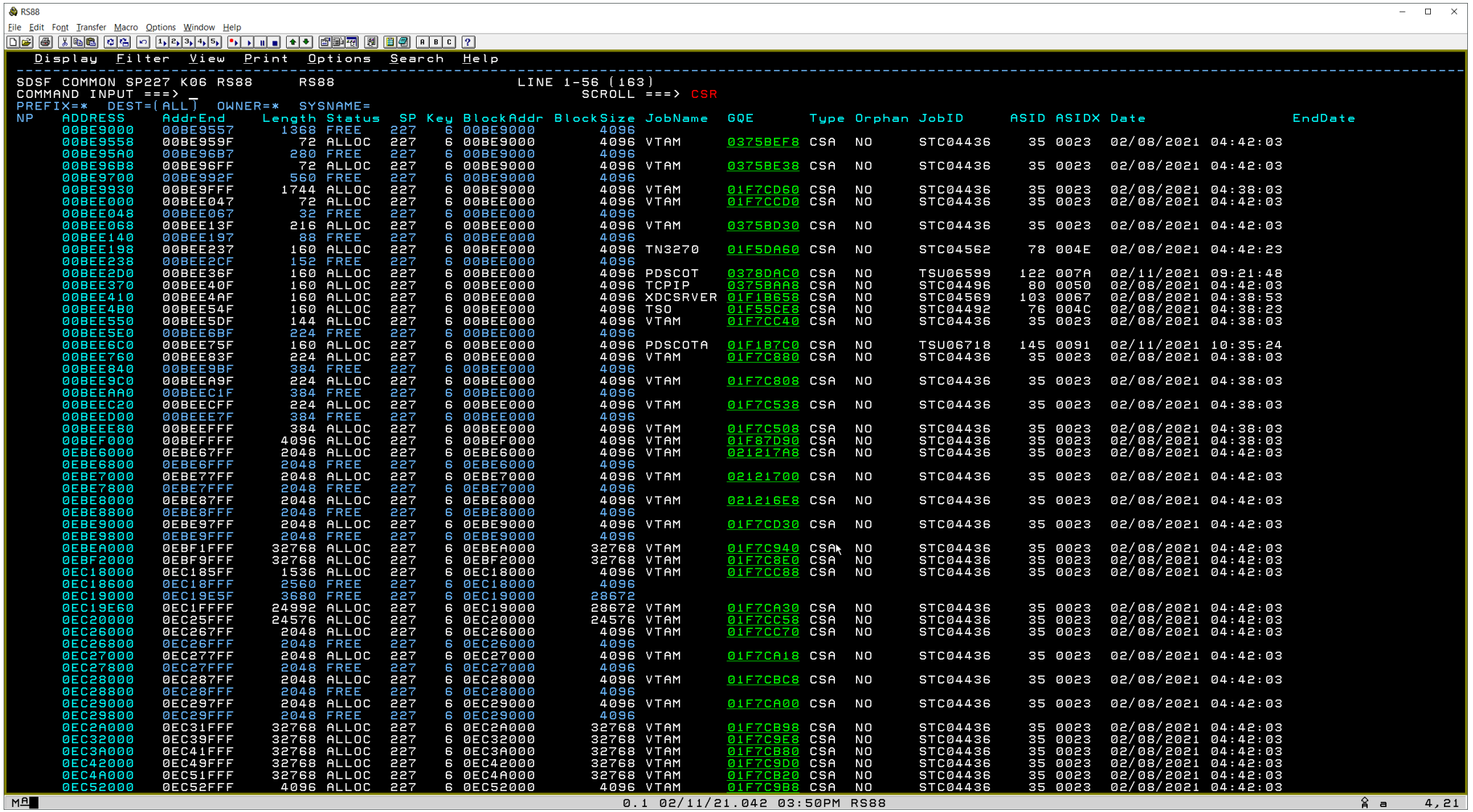
CS Panel – Details Using “L” Action



RS88

File Edit Font Transfer Macro Options Window Help

Display Filter View Print Options Search Help

SDSF COMMON SP227 K06 RS88 RS88 LINE 1-56 (163)
COMMAND INPUT ===> SCROLL ===> CSR
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=

NP	ADDRESS	AddrEnd	Length	Status	SP	Key	BlockAddr	BlockSize	JobName	GQE	Type	Orphan	JobID	ASID	ASIDX	Date	EndDate
	00BE9000	00BE9557	1368	FREE	227	6	00BE9000	4096									
	00BE9558	00BE959F	72	ALLOC	227	6	00BE9000	4096	VTAM	0375BEF8	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	00BE95A0	00BE96B7	280	FREE	227	6	00BE9000	4096									
	00BE96B8	00BE96FF	72	ALLOC	227	6	00BE9000	4096	VTAM	0375BE38	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	00BE9700	00BE992F	560	FREE	227	6	00BE9000	4096									
	00BE9930	00BE9FFF	1744	ALLOC	227	6	00BE9000	4096	VTAM	01F7CD60	CSA	NO	STC04436	35	0023	02/08/2021 04:38:03	
	00BEE000	00BEE047	72	ALLOC	227	6	00BEE000	4096	VTAM	01F7CCD0	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	00BEE048	00BEE067	32	FREE	227	6	00BEE000	4096									
	00BEE068	00BEE13F	216	ALLOC	227	6	00BEE000	4096	VTAM	0375BD30	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	00BEE140	00BEE197	88	FREE	227	6	00BEE000	4096									
	00BEE198	00BEE237	160	ALLOC	227	6	00BEE000	4096	TN3270	01F5DA60	CSA	NO	STC04562	78	004E	02/08/2021 04:42:23	
	00BEE238	00BEE2CF	152	FREE	227	6	00BEE000	4096									
	00BEE2D0	00BEE36F	160	ALLOC	227	6	00BEE000	4096	PDSCOT	0378DAC0	CSA	NO	TSU06599	122	007A	02/11/2021 09:21:48	
	00BEE370	00BEE40F	160	ALLOC	227	6	00BEE000	4096	TCPIP	0375BAA8	CSA	NO	STC04496	80	0050	02/08/2021 04:42:03	
	00BEE410	00BEE4AF	160	ALLOC	227	6	00BEE000	4096	XDCSRVER	01F1B658	CSA	NO	STC04569	103	0067	02/08/2021 04:38:53	
	00BEE4B0	00BEE54F	160	ALLOC	227	6	00BEE000	4096	TSO	01F55CE8	CSA	NO	STC04492	76	004C	02/08/2021 04:38:23	
	00BEE550	00BEE5DF	144	ALLOC	227	6	00BEE000	4096	VTAM	01F7CC40	CSA	NO	STC04436	35	0023	02/08/2021 04:38:03	
	00BEE5E0	00BEE6BF	224	FREE	227	6	00BEE000	4096									
	00BEE6C0	00BEE75F	160	ALLOC	227	6	00BEE000	4096	PDSCOTA	01F1B7C0	CSA	NO	TSU06718	145	0091	02/11/2021 10:35:24	
	00BEE760	00BEE83F	224	ALLOC	227	6	00BEE000	4096	VTAM	01F7C880	CSA	NO	STC04436	35	0023	02/08/2021 04:38:03	
	00BEE840	00BEE9BF	384	FREE	227	6	00BEE000	4096									
	00BEE9C0	00BEEA9F	224	ALLOC	227	6	00BEE000	4096	VTAM	01F7C808	CSA	NO	STC04436	35	0023	02/08/2021 04:38:03	
	00BEEAA0	00BEEC1F	384	FREE	227	6	00BEE000	4096									
	00BEEC20	00BEECFF	224	ALLOC	227	6	00BEE000	4096	VTAM	01F7C538	CSA	NO	STC04436	35	0023	02/08/2021 04:38:03	
	00BEED00	00BEEE7F	384	FREE	227	6	00BEE000	4096									
	00BEEE80	00BEEFFF	384	ALLOC	227	6	00BEE000	4096	VTAM	01F7C508	CSA	NO	STC04436	35	0023	02/08/2021 04:38:03	
	00BEF000	00BEFFFF	4096	ALLOC	227	6	00BEF000	4096	VTAM	01F87D90	CSA	NO	STC04436	35	0023	02/08/2021 04:38:03	
	0EBE6000	0EBE67FF	2048	ALLOC	227	6	0EBE6000	4096	VTAM	021217A8	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EBE6800	0EBE6FFF	2048	FREE	227	6	0EBE6000	4096									
	0EBE7000	0EBE77FF	2048	ALLOC	227	6	0EBE7000	4096	VTAM	02121700	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EBE7800	0EBE7FFF	2048	FREE	227	6	0EBE7000	4096									
	0EBE8000	0EBE87FF	2048	ALLOC	227	6	0EBE8000	4096	VTAM	021216E8	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EBE8800	0EBE8FFF	2048	FREE	227	6	0EBE8000	4096									
	0EBE9000	0EBE97FF	2048	ALLOC	227	6	0EBE9000	4096	VTAM	01F7CD30	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EBE9800	0EBE9FFF	2048	FREE	227	6	0EBE9000	4096									
	0EBEA000	0EBF1FFF	32768	ALLOC	227	6	0EBEA000	32768	VTAM	01F7C940	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EBF2000	0EBF9FFF	32768	ALLOC	227	6	0EBF2000	32768	VTAM	01F7C8E0	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC18000	0EC185FF	1536	ALLOC	227	6	0EC18000	4096	VTAM	01F7CC88	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC18600	0EC18FFF	2560	FREE	227	6	0EC18000	4096									
	0EC19000	0EC19E5F	3680	FREE	227	6	0EC19000	28672									
	0EC19E60	0EC1FFFF	24992	ALLOC	227	6	0EC19000	28672	VTAM	01F7CA30	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC20000	0EC25FFF	24576	ALLOC	227	6	0EC20000	24576	VTAM	01F7CC58	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC26000	0EC267FF	2048	ALLOC	227	6	0EC26000	4096	VTAM	01F7CC70	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC26800	0EC26FFF	2048	FREE	227	6	0EC26000	4096									
	0EC27000	0EC277FF	2048	ALLOC	227	6	0EC27000	4096	VTAM	01F7CA18	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC27800	0EC27FFF	2048	FREE	227	6	0EC27000	4096									
	0EC28000	0EC287FF	2048	ALLOC	227	6	0EC28000	4096	VTAM	01F7CBC8	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC28800	0EC28FFF	2048	FREE	227	6	0EC28000	4096									
	0EC29000	0EC297FF	2048	ALLOC	227	6	0EC29000	4096	VTAM	01F7CA00	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC29800	0EC29FFF	2048	FREE	227	6	0EC29000	4096									
	0EC2A000	0EC31FFF	32768	ALLOC	227	6	0EC2A000	32768	VTAM	01F7CB98	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC32000	0EC39FFF	32768	ALLOC	227	6	0EC32000	32768	VTAM	01F7C9E8	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC3A000	0EC41FFF	32768	ALLOC	227	6	0EC3A000	32768	VTAM	01F7CB80	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC42000	0EC49FFF	32768	ALLOC	227	6	0EC42000	32768	VTAM	01F7C9D0	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC4A000	0EC51FFF	32768	ALLOC	227	6	0EC4A000	32768	VTAM	01F7CB20	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	
	0EC52000	0EC52FFF	4096	ALLOC	227	6	0EC52000	4096	VTAM	01F7C9B8	CSA	NO	STC04436	35	0023	02/08/2021 04:42:03	

MA 0.1 02/11/21.042 03:50PM RS88 4,21

“L” action used against subpool 227 key 6 on the CS panel.

Note title line includes “SPnnn” and “Knn”

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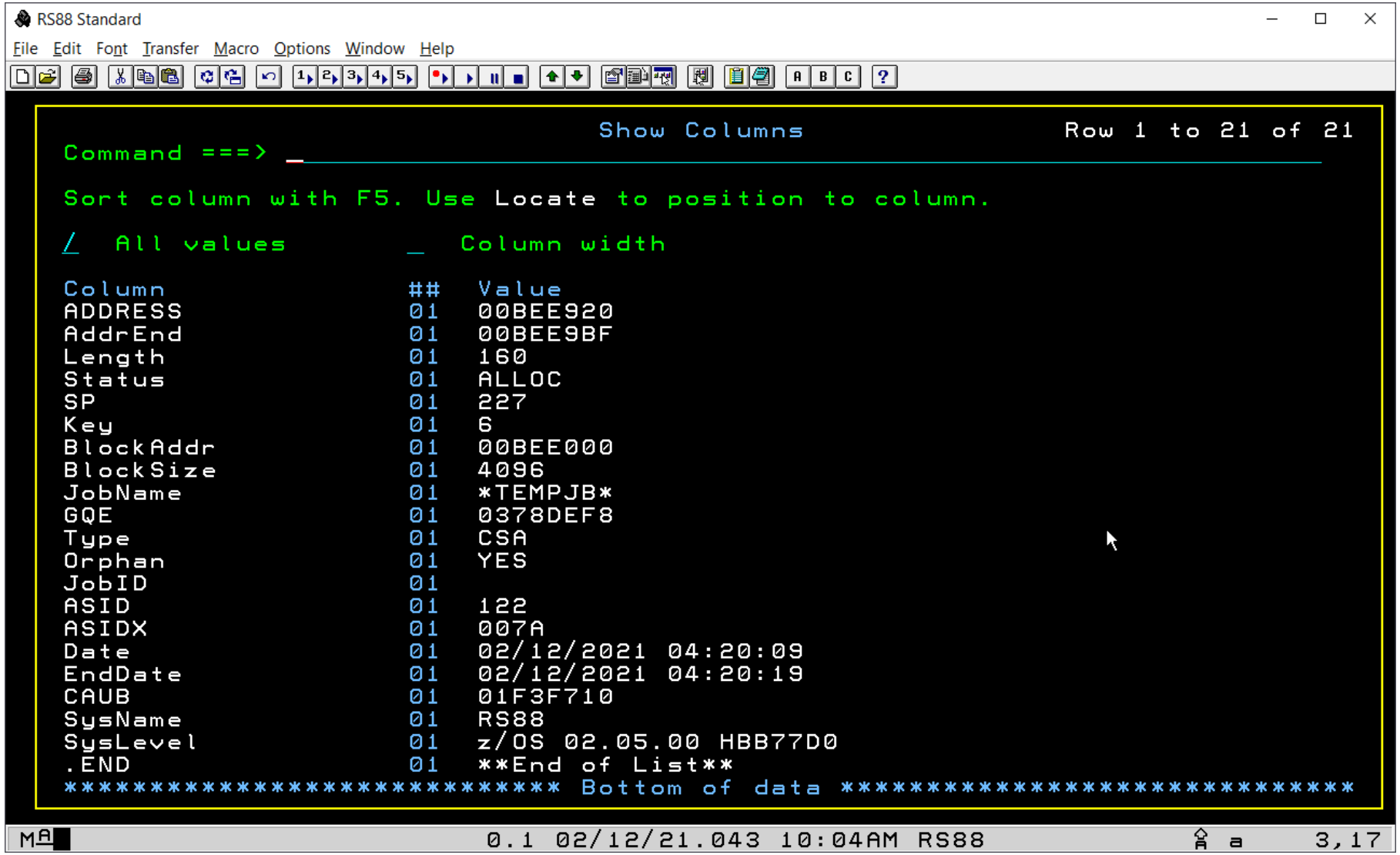
CS Panel – Details Columns



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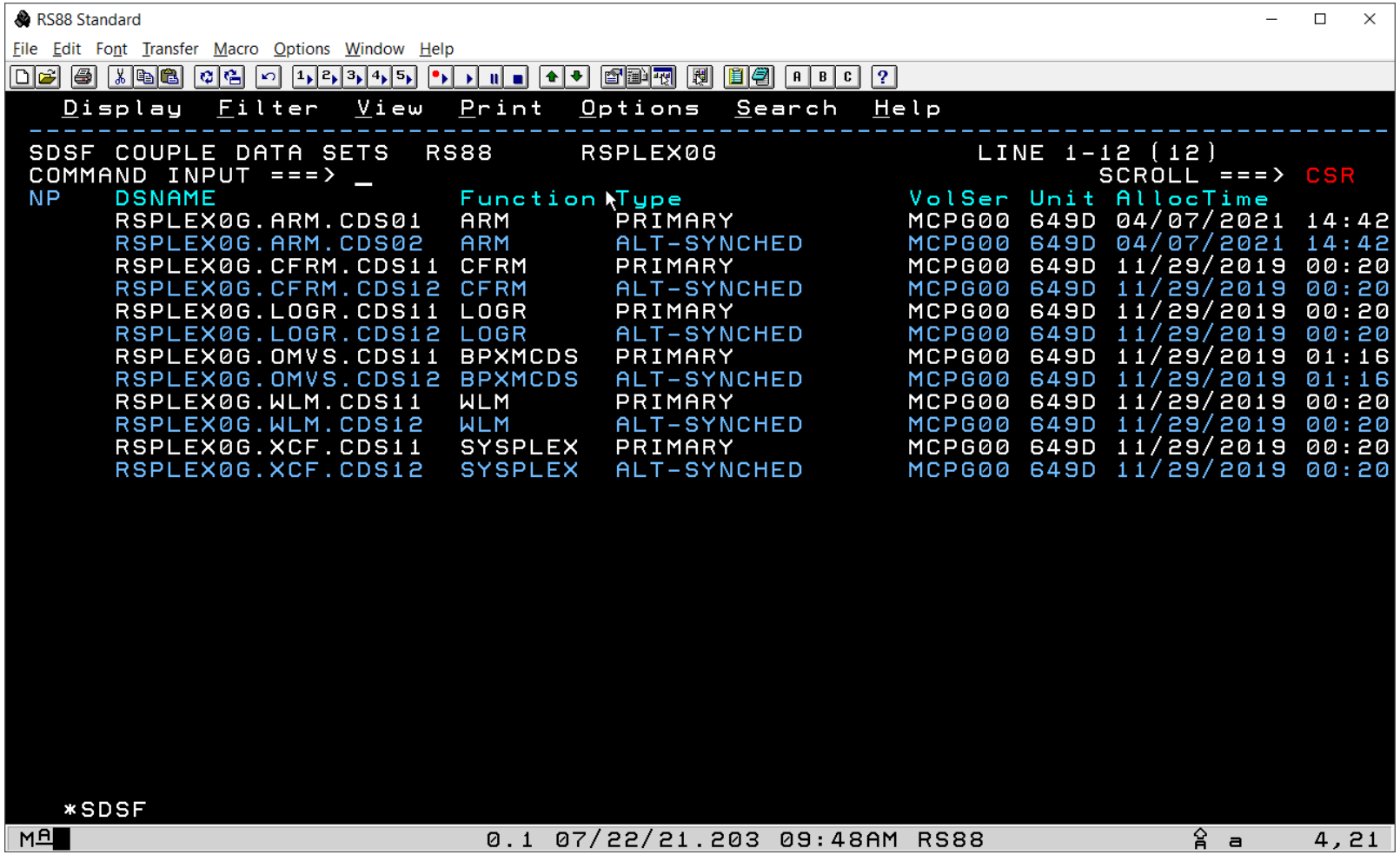
CFD Panel



Shows couple data sets

Includes allocated time and attributes

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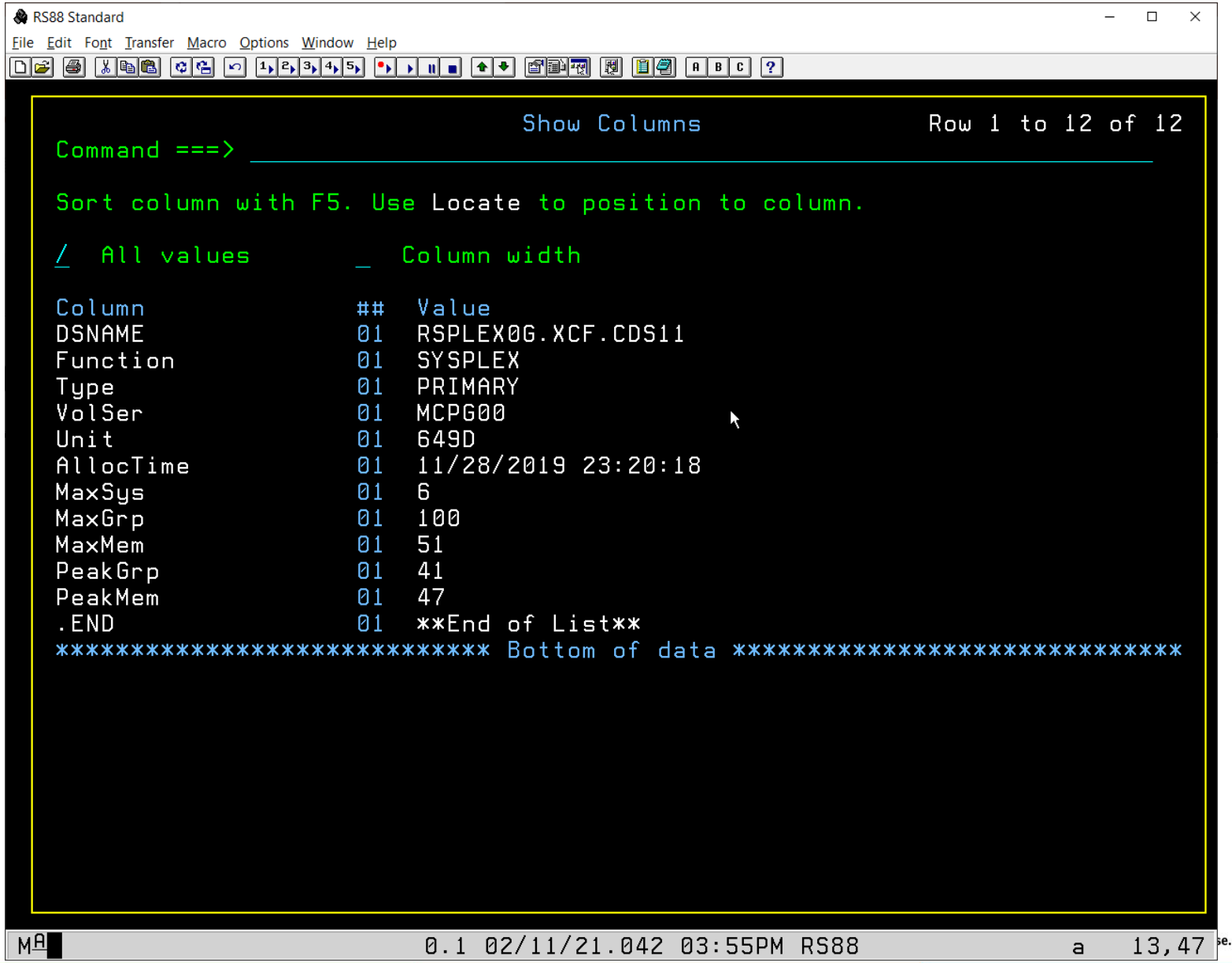
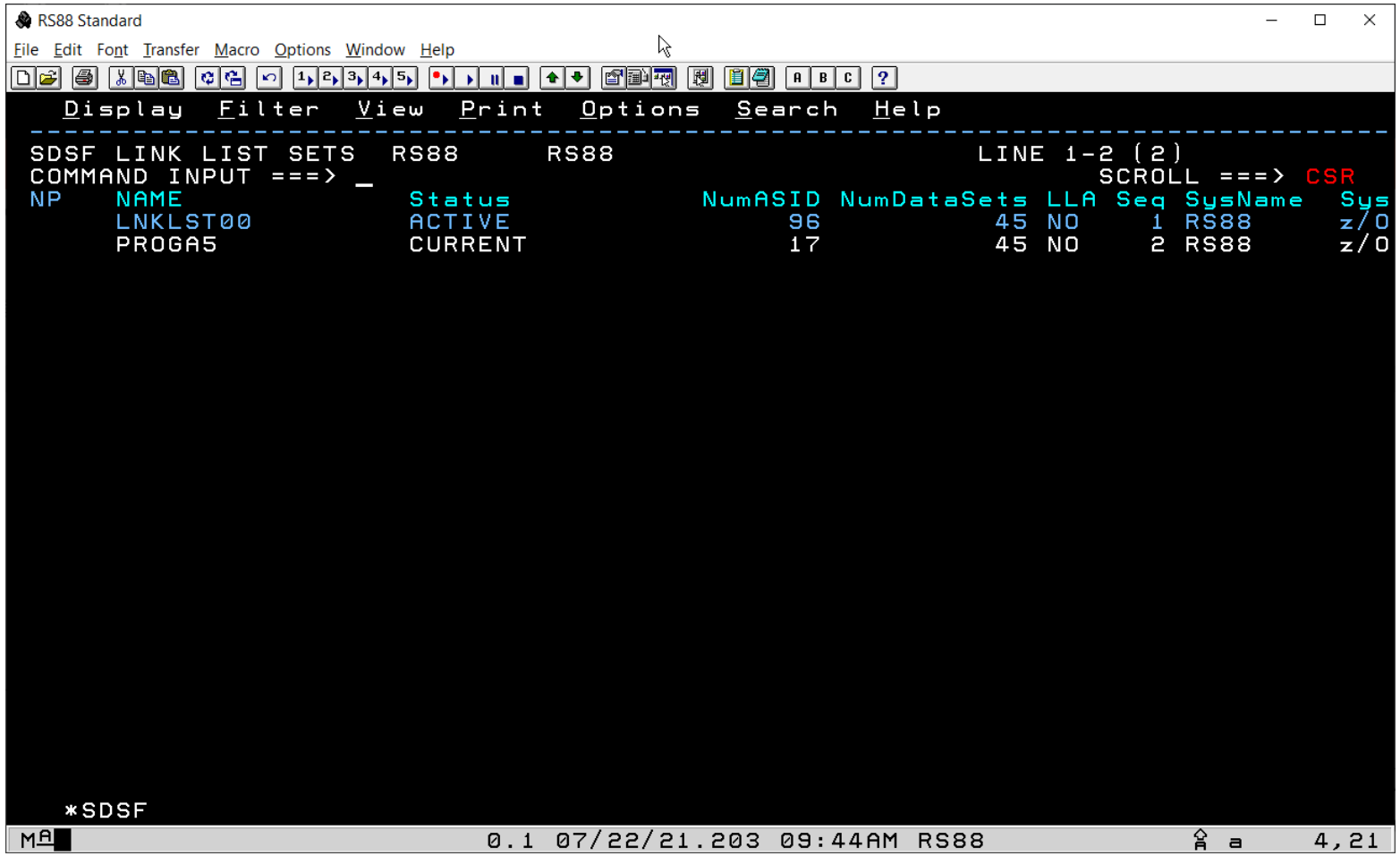
CFD Panel - Columns



se. http://creativecommons.org/licenses/by-nc-nd/3.0/

LLS Panel



- Show defined 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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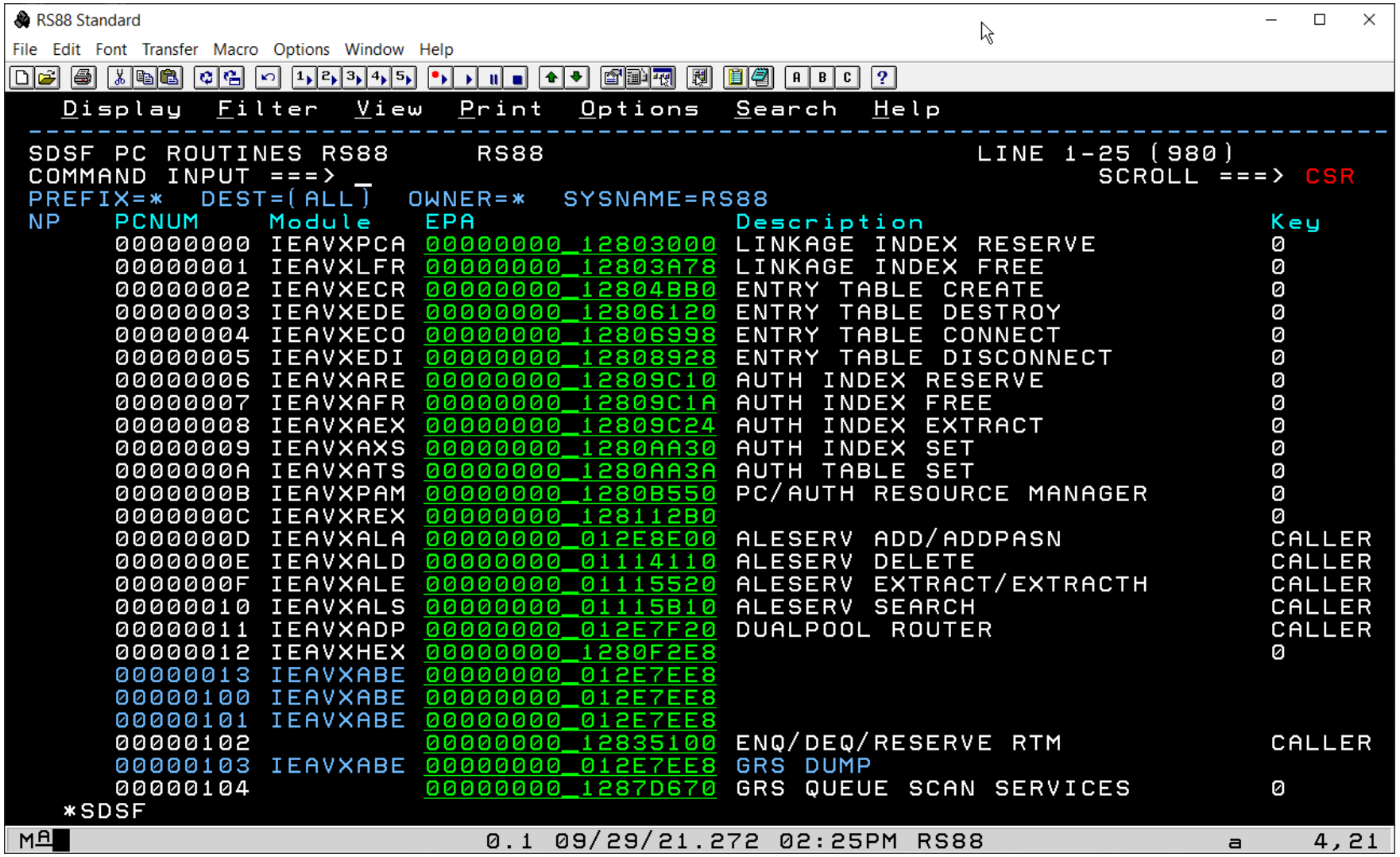
PC Panel



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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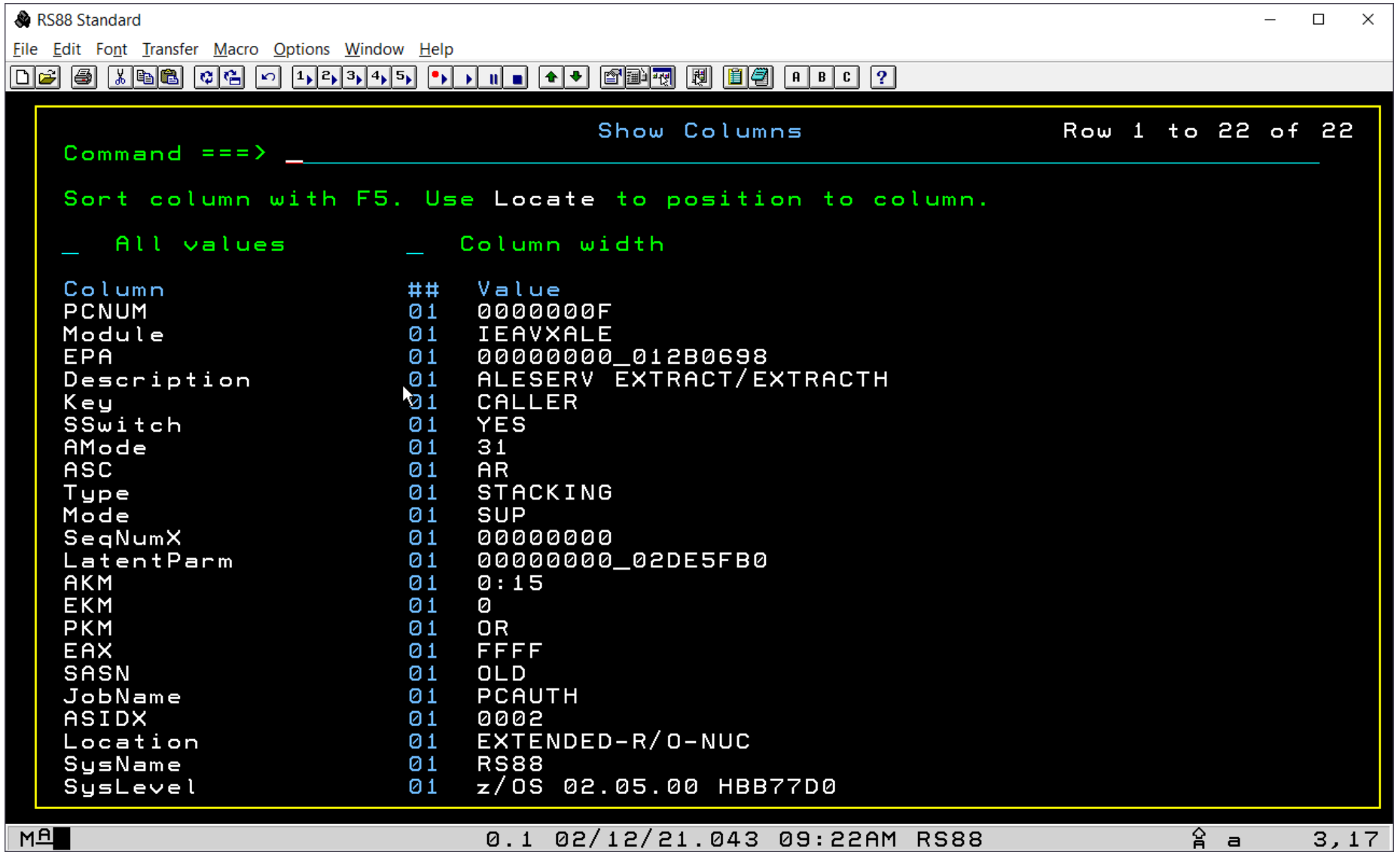
PC Panel - Columns



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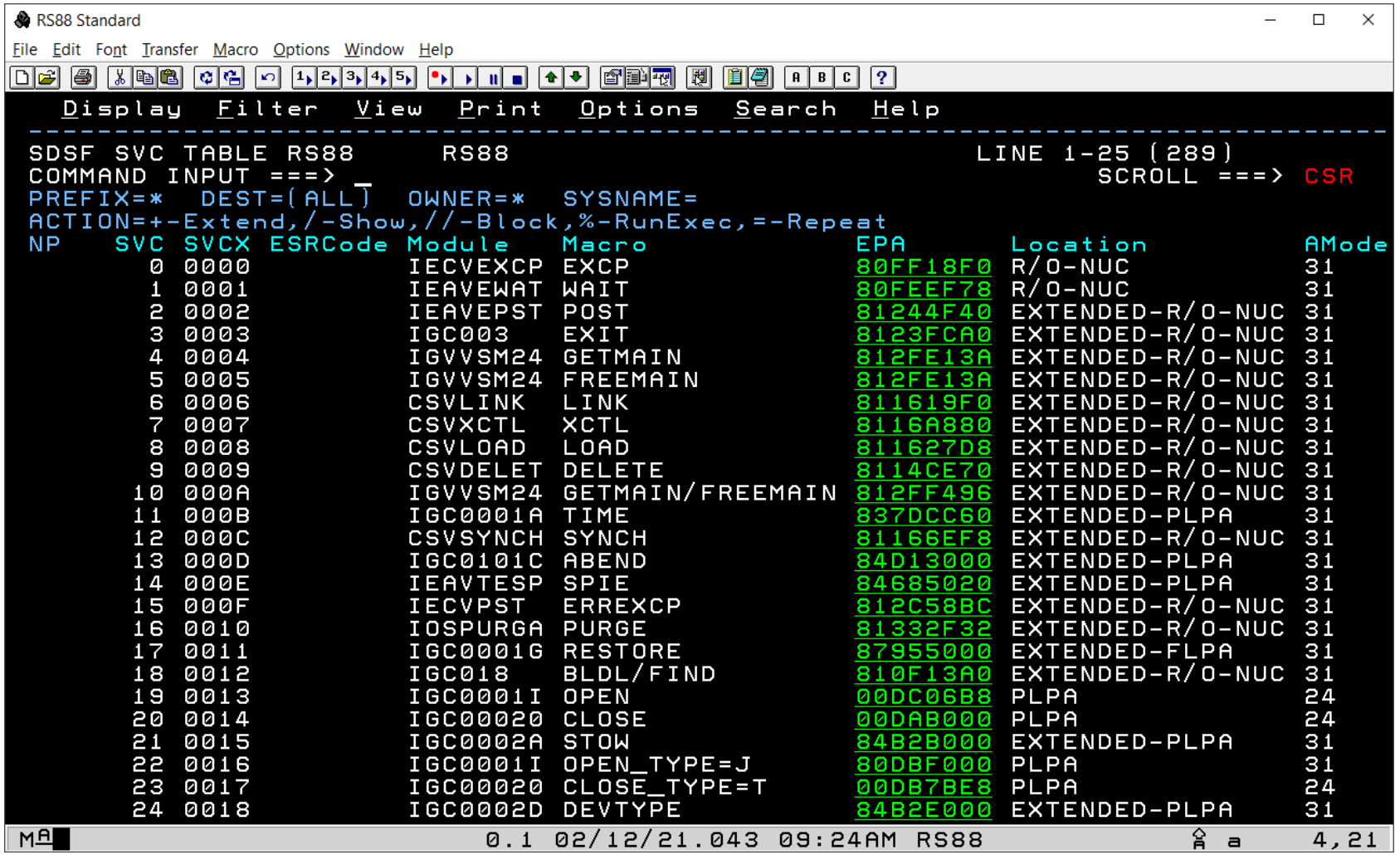
SVC Panel



Shows SVC routines

Descriptions for well-known SVC numbers

Includes entries for extended router SVCs (ESR)

Includes SVCUPDTE information

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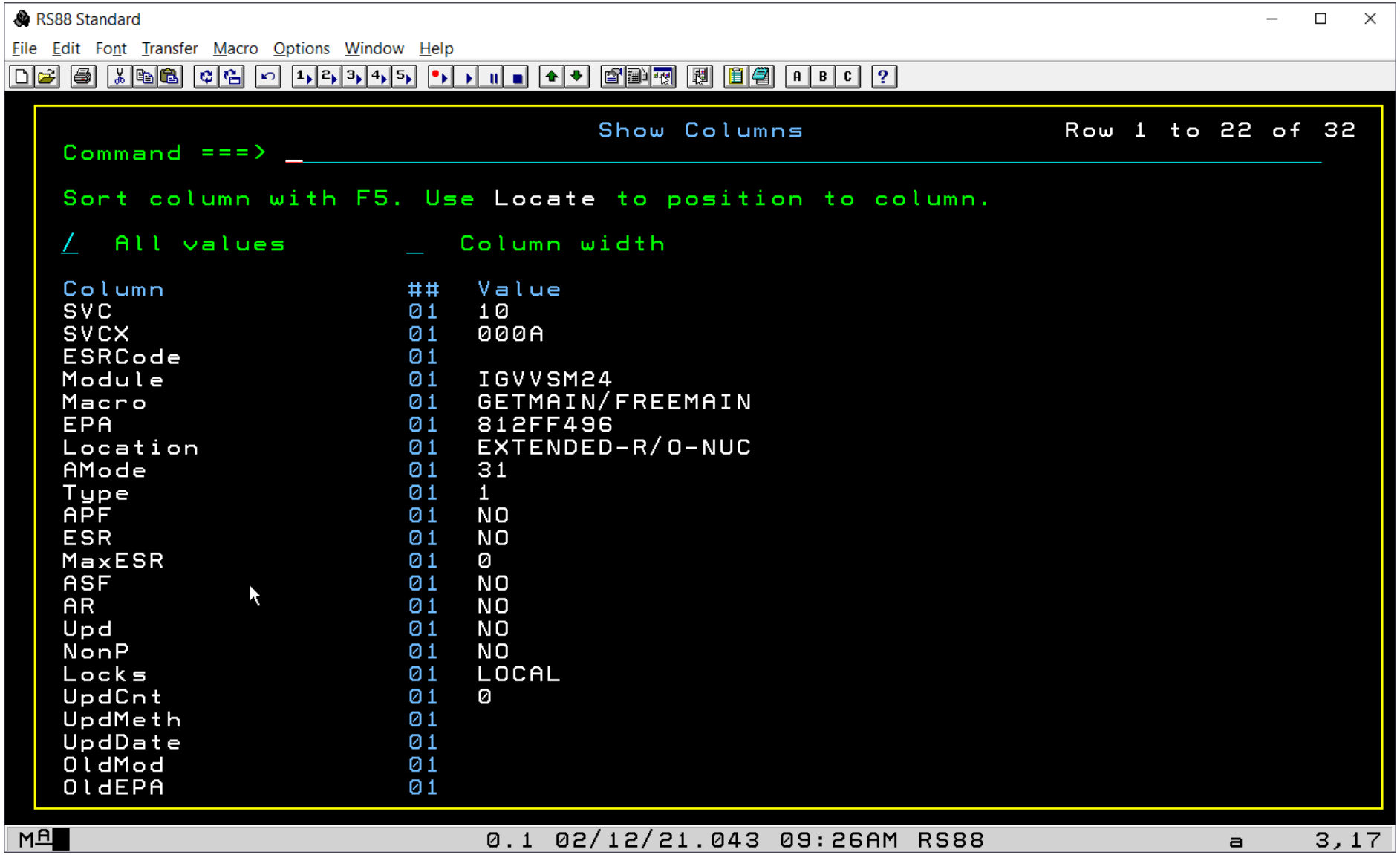
SVC Panel - Columns



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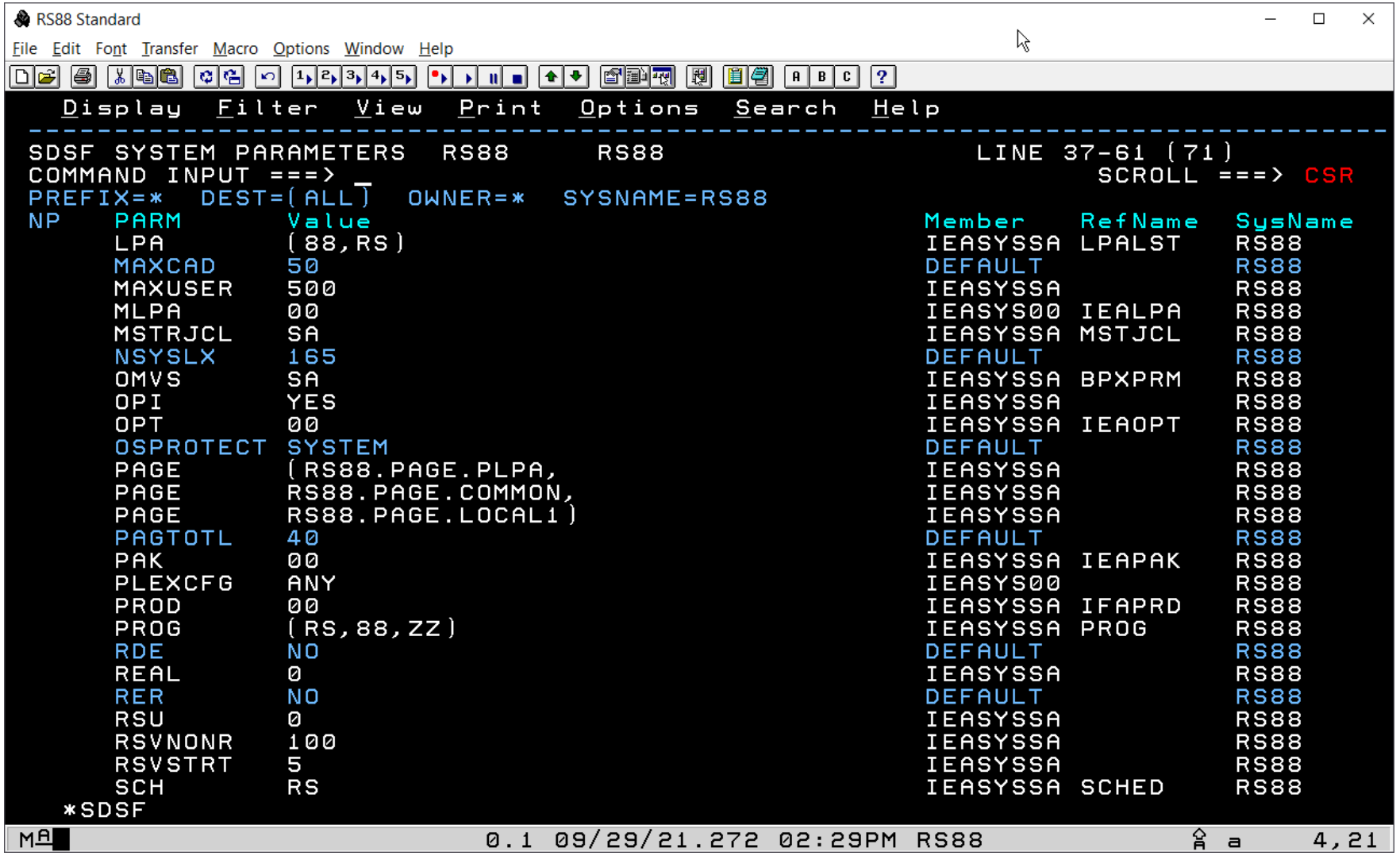
SYSP Panel



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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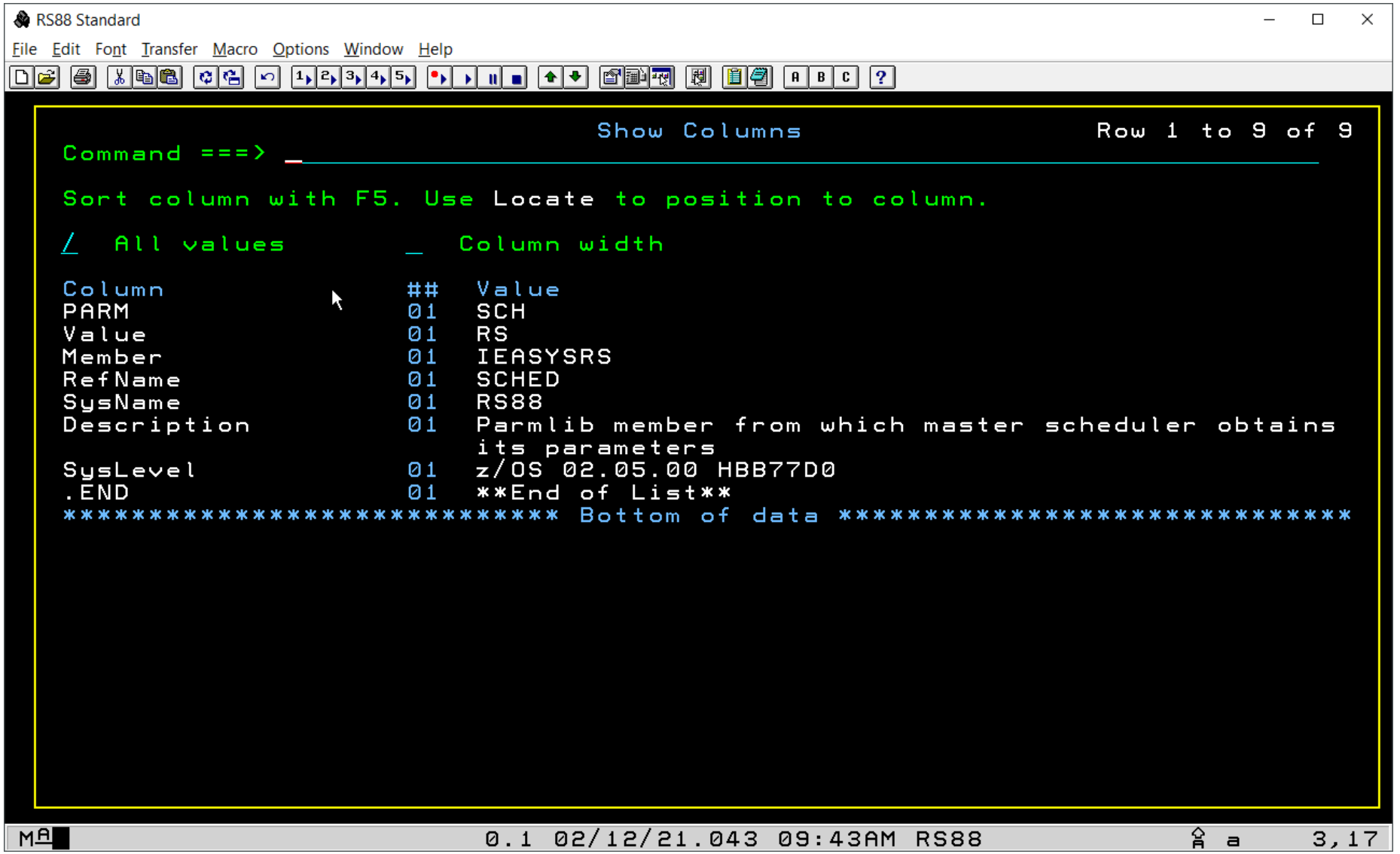
SYSP Panel - Columns



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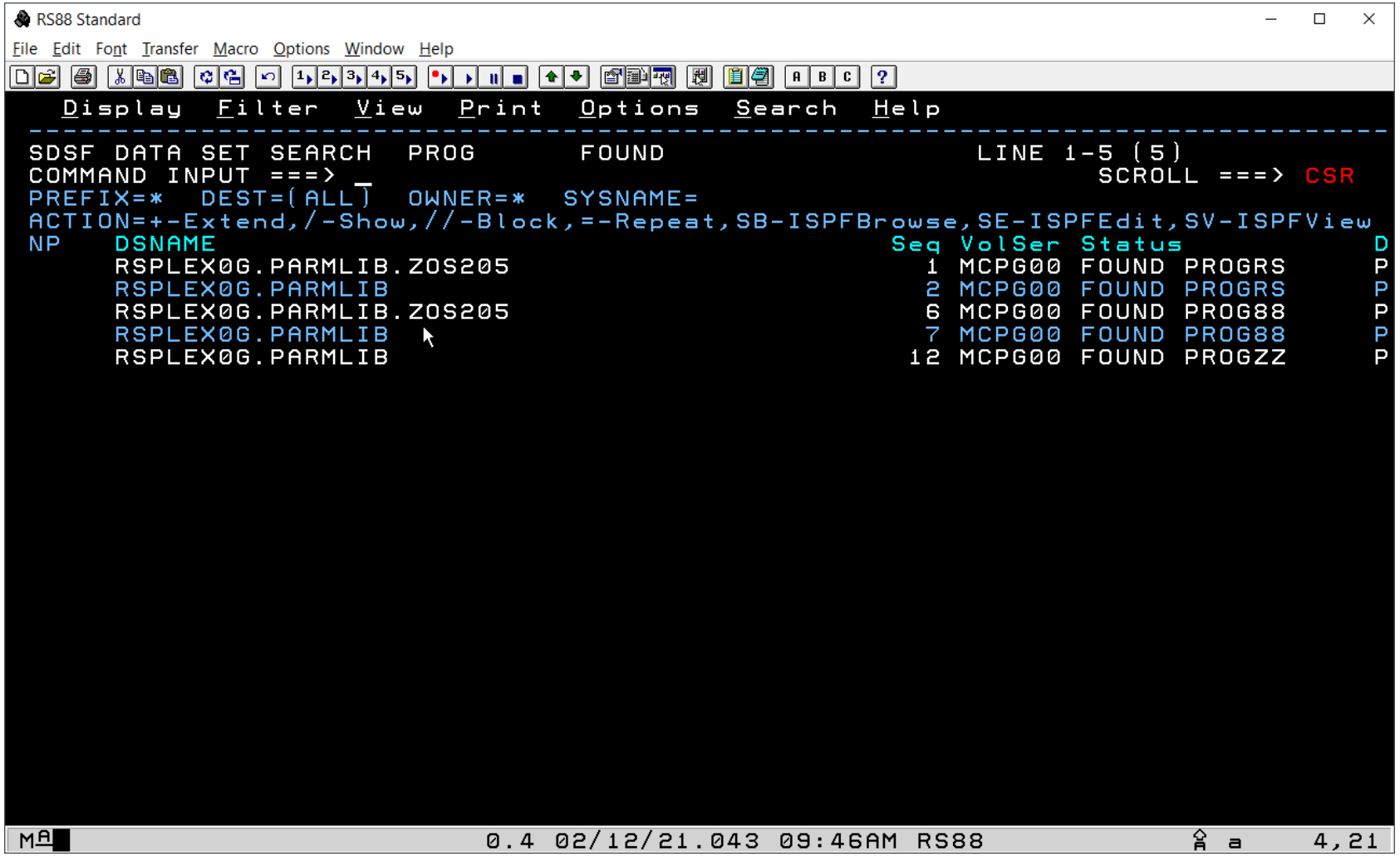
SYSP – Search PARMLIB



"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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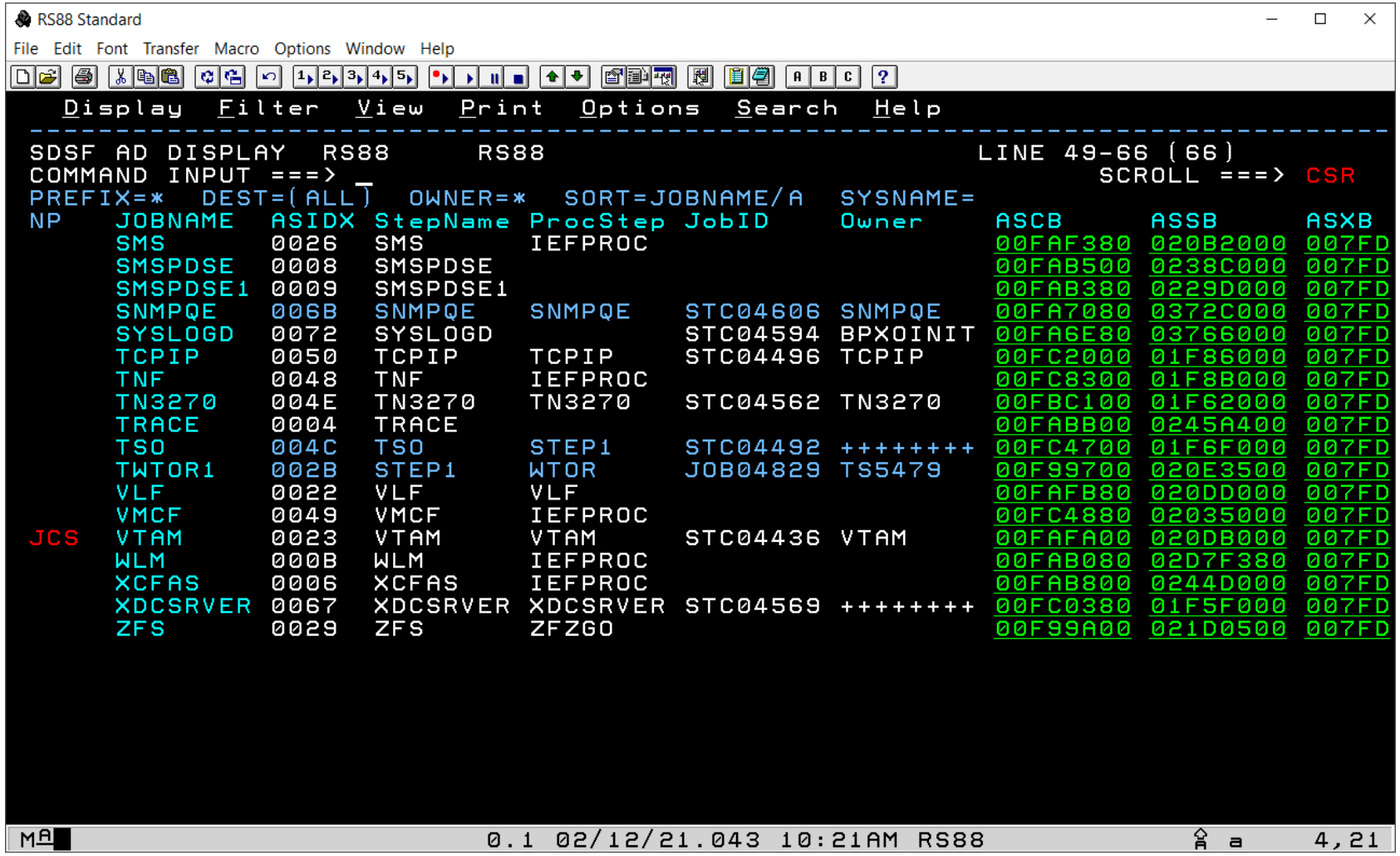
Job Common Storage - Action



Type the “JCS” action against a jobname from supporting panel

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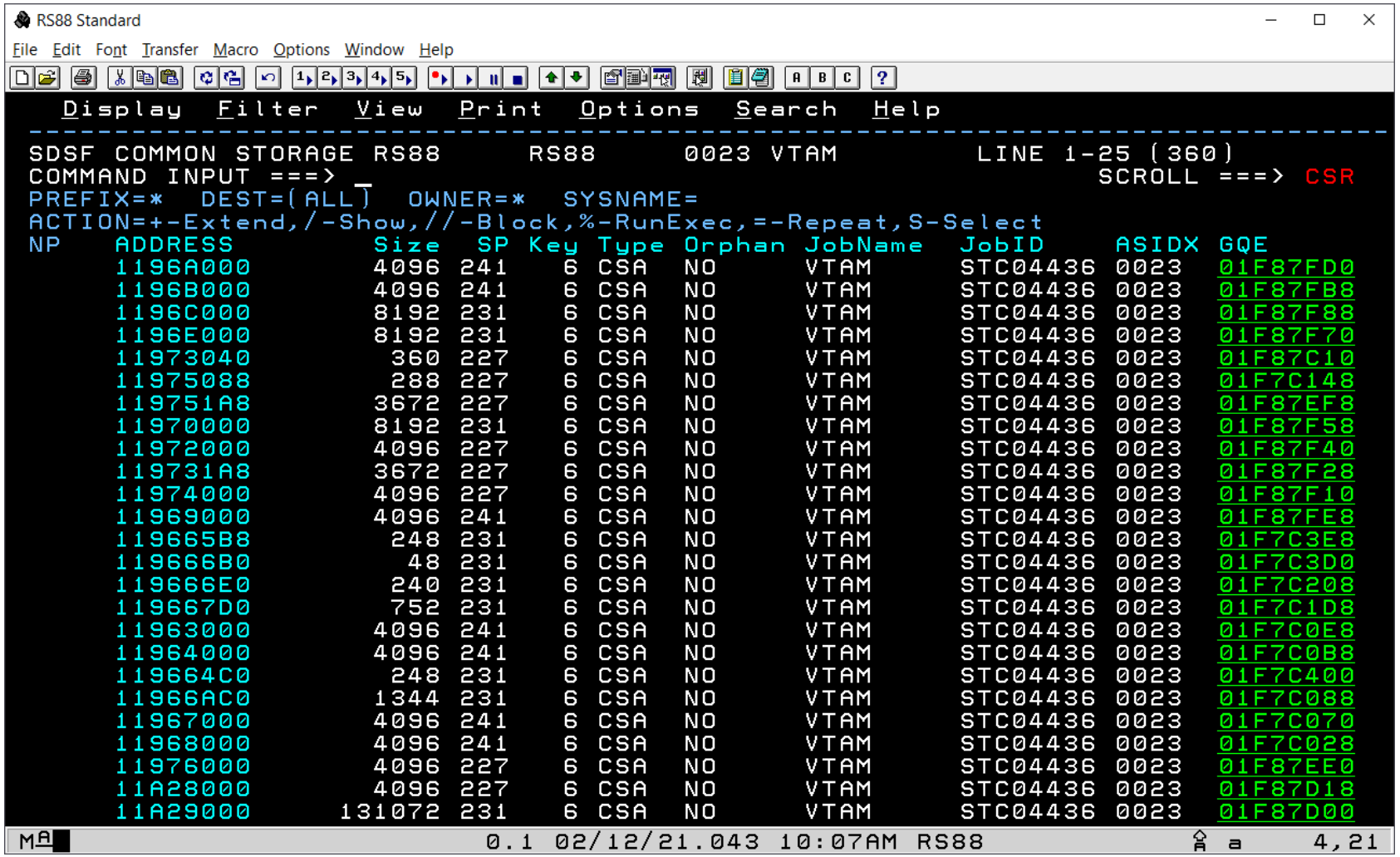
Job Common Storage - Panel



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

Note that the “Address” column can be selected for memory browse (MEM)

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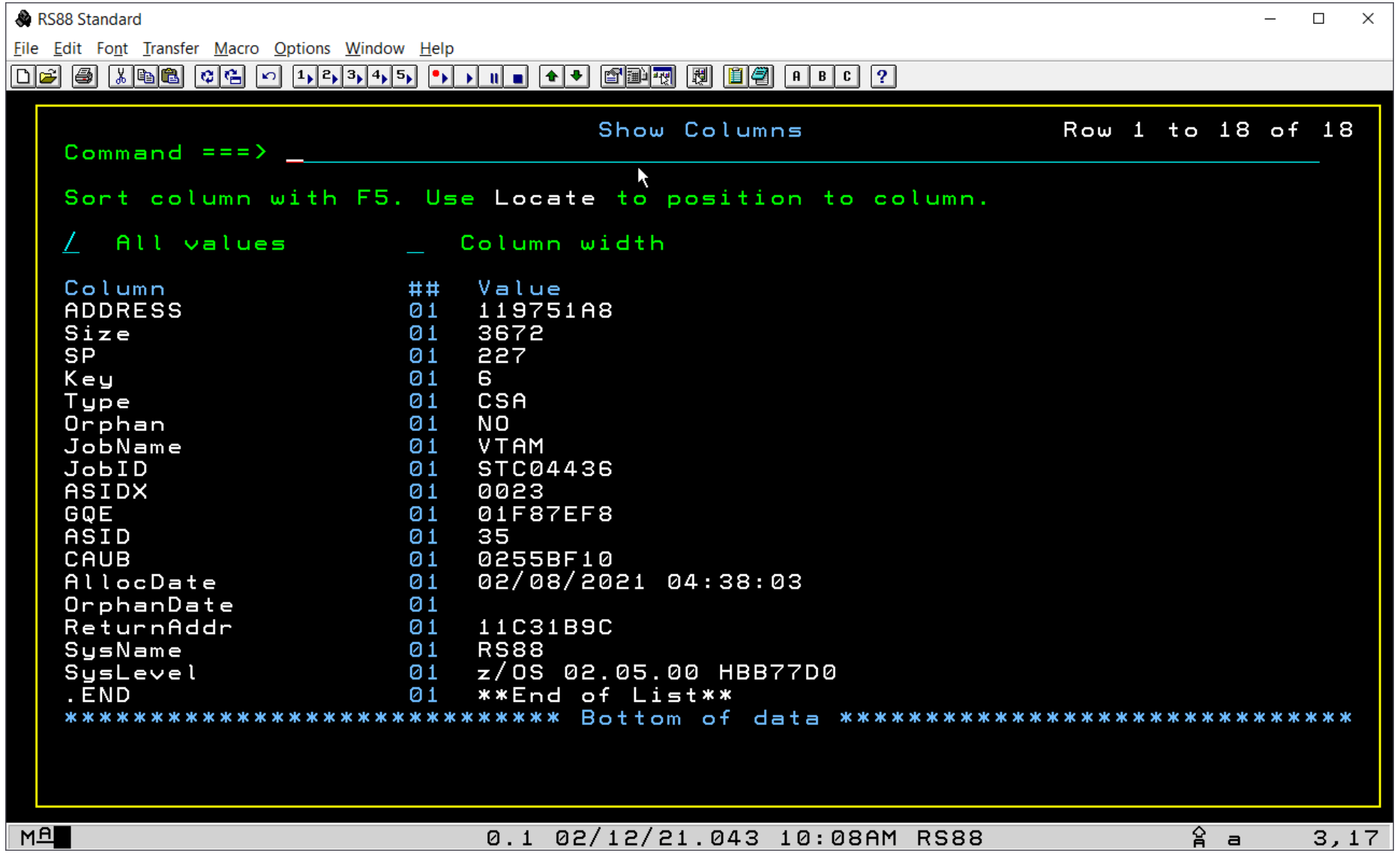
Job Common Storage - Columns



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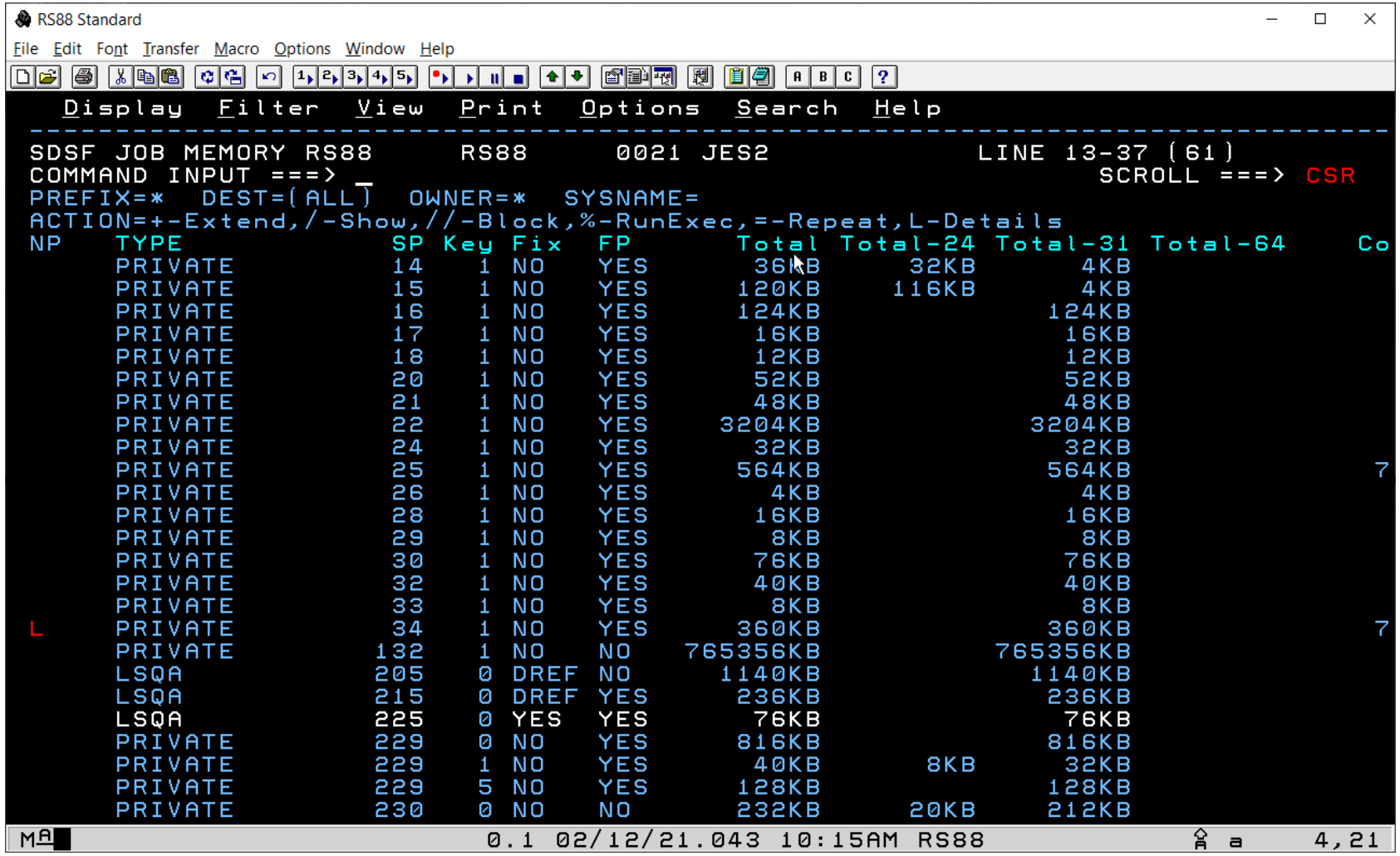
Job Private Storage - Action



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

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

If “L” is issued against a row that is for common storage, the Job Common Storage detail panel is shown.

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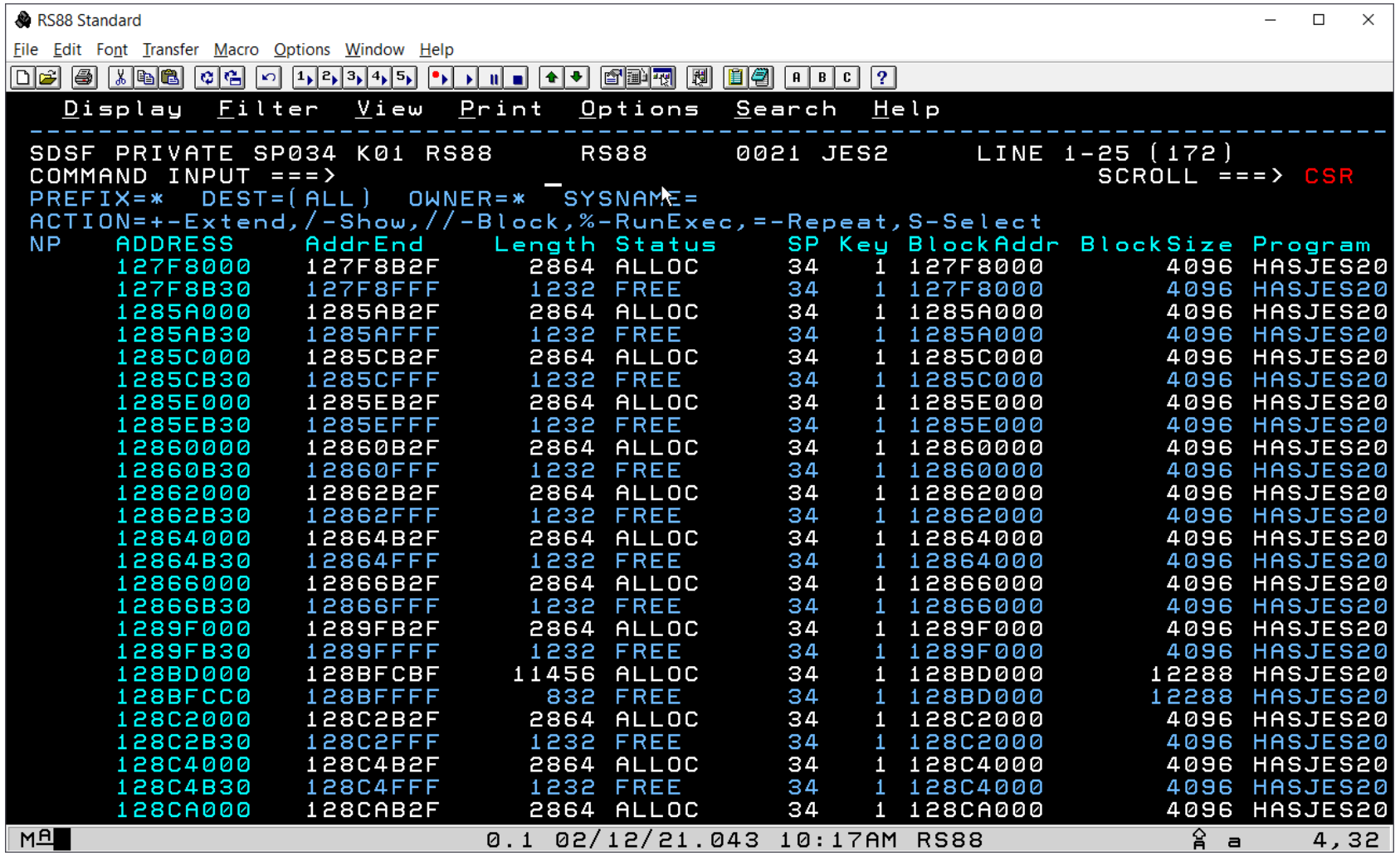
Job Private Storage - Panel



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 Panels

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

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NEW HELP AND SEARCH INTERFACE

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New HELP and SEARCH

- HELP, COLSHELP (COLH) 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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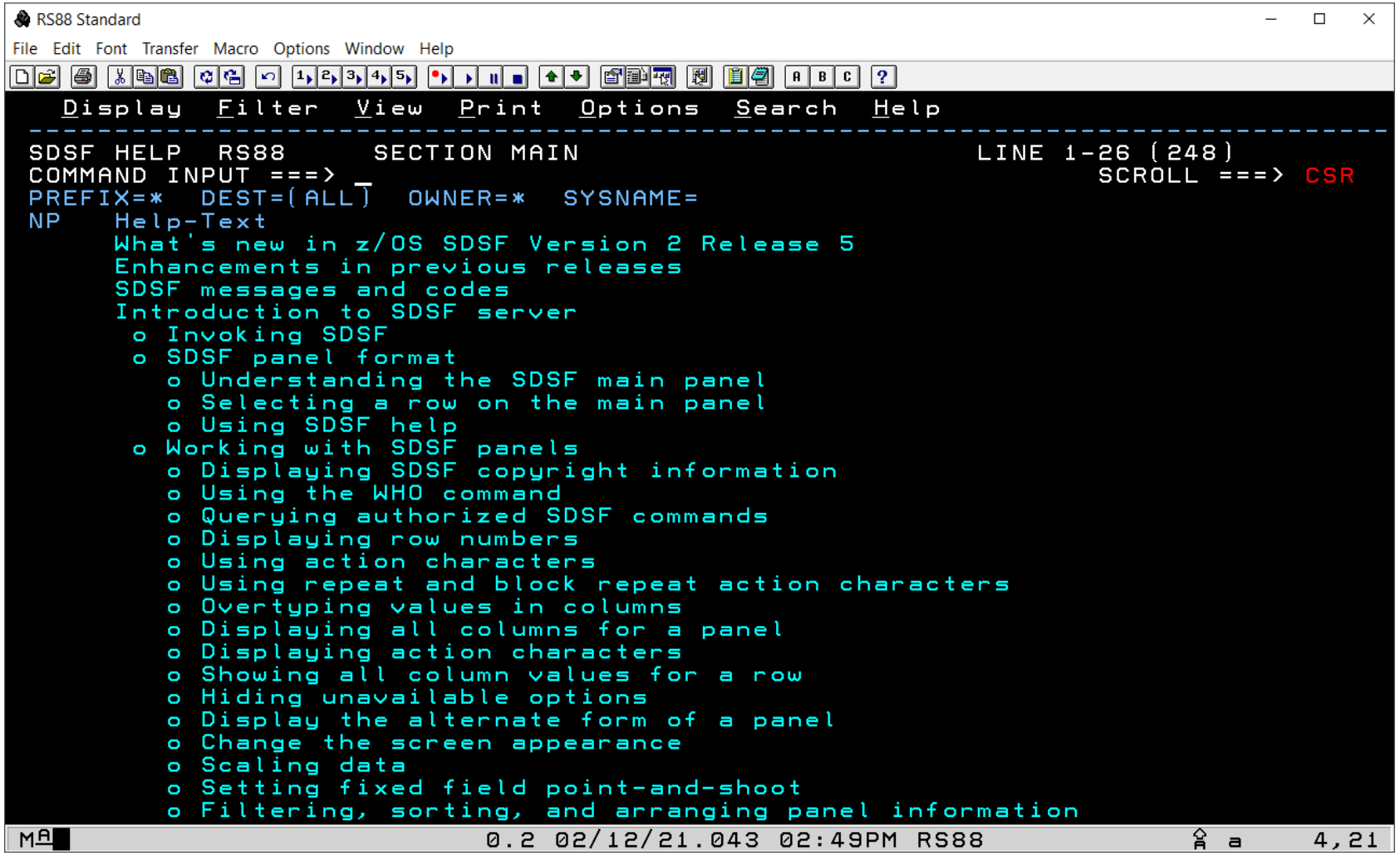
HELP Panel



Main help index screen

Use “S” action to select required help section

Point-and-shoot enabled

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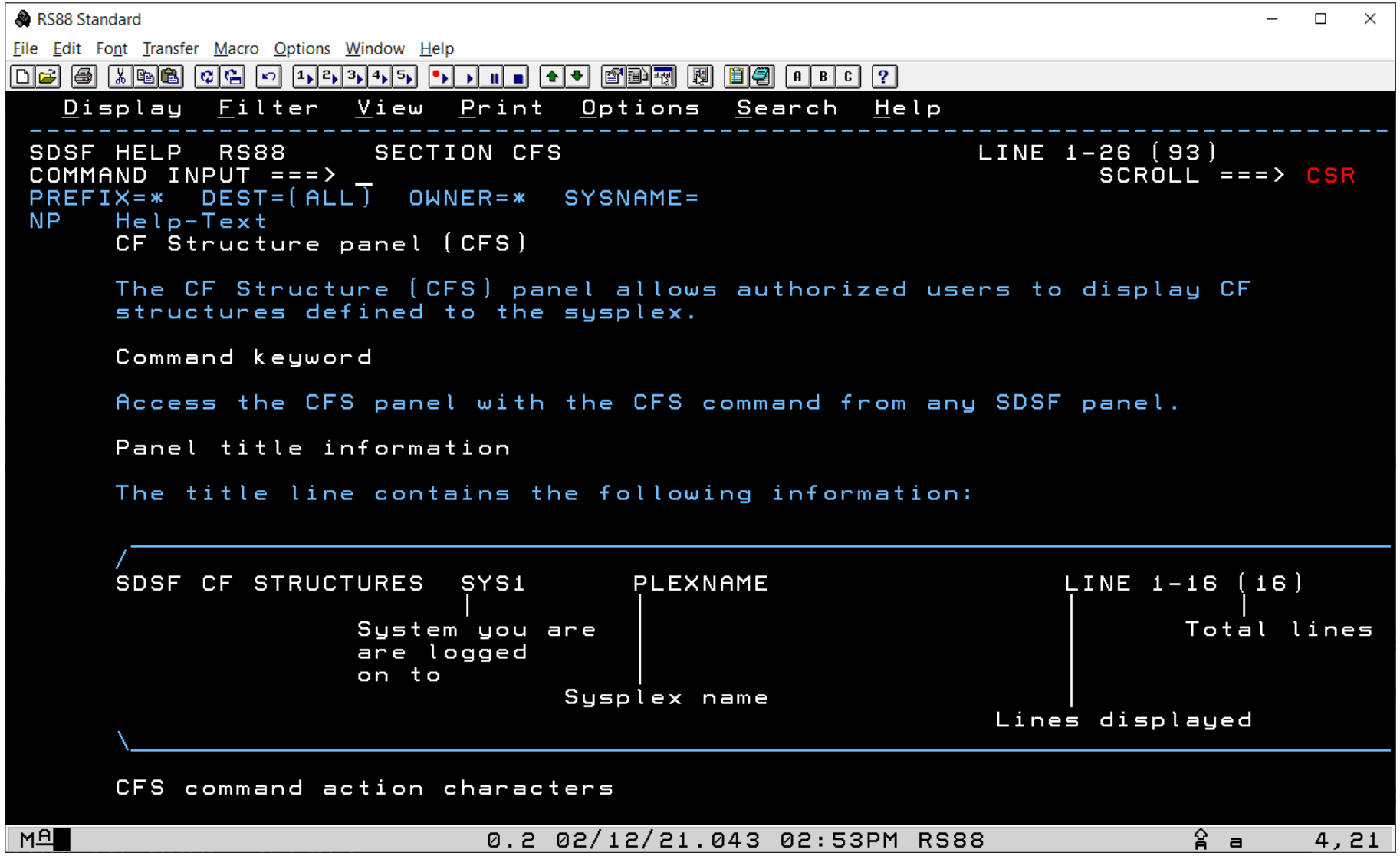
HELP Panel - Content



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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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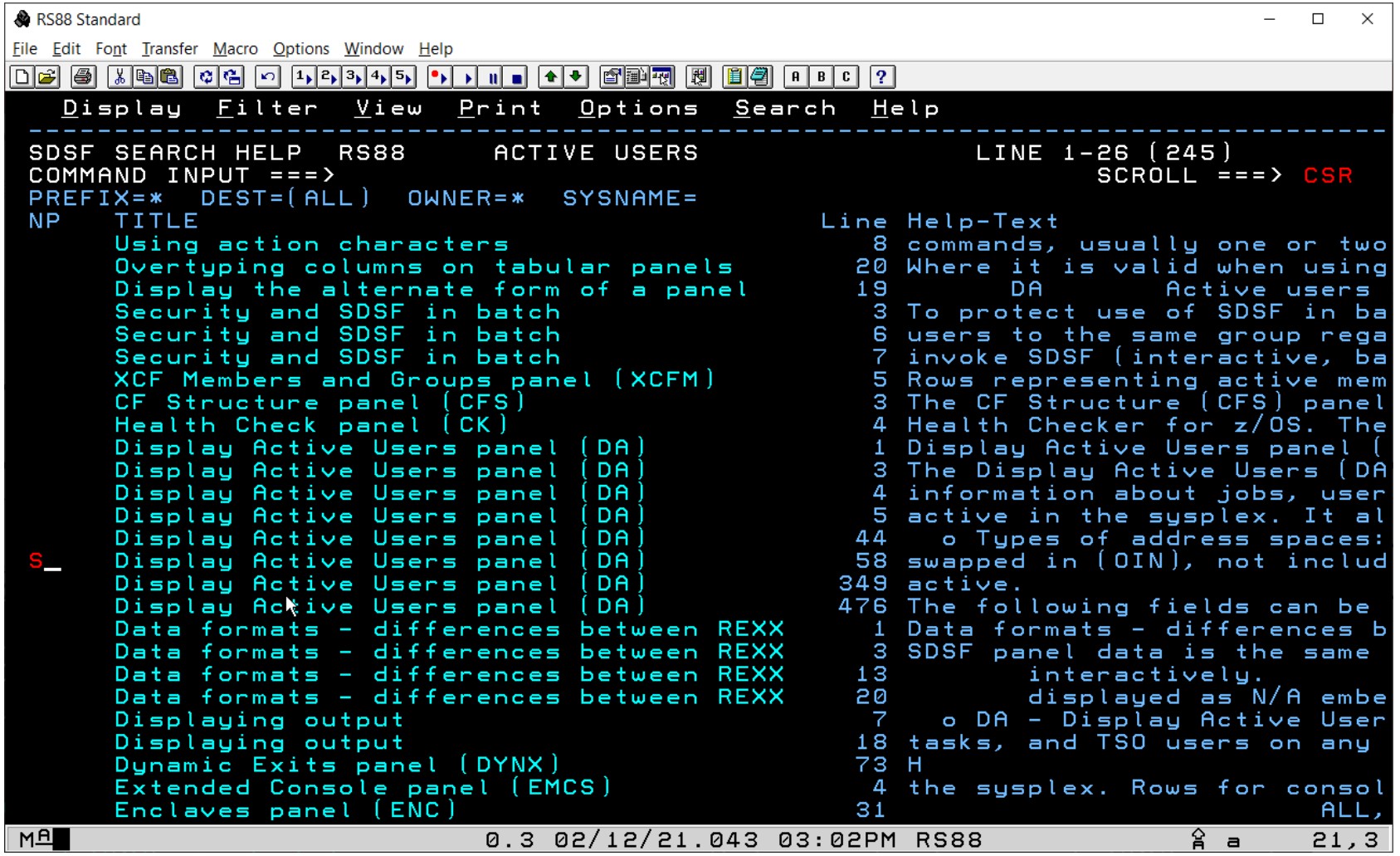
SEARCH Command - Example



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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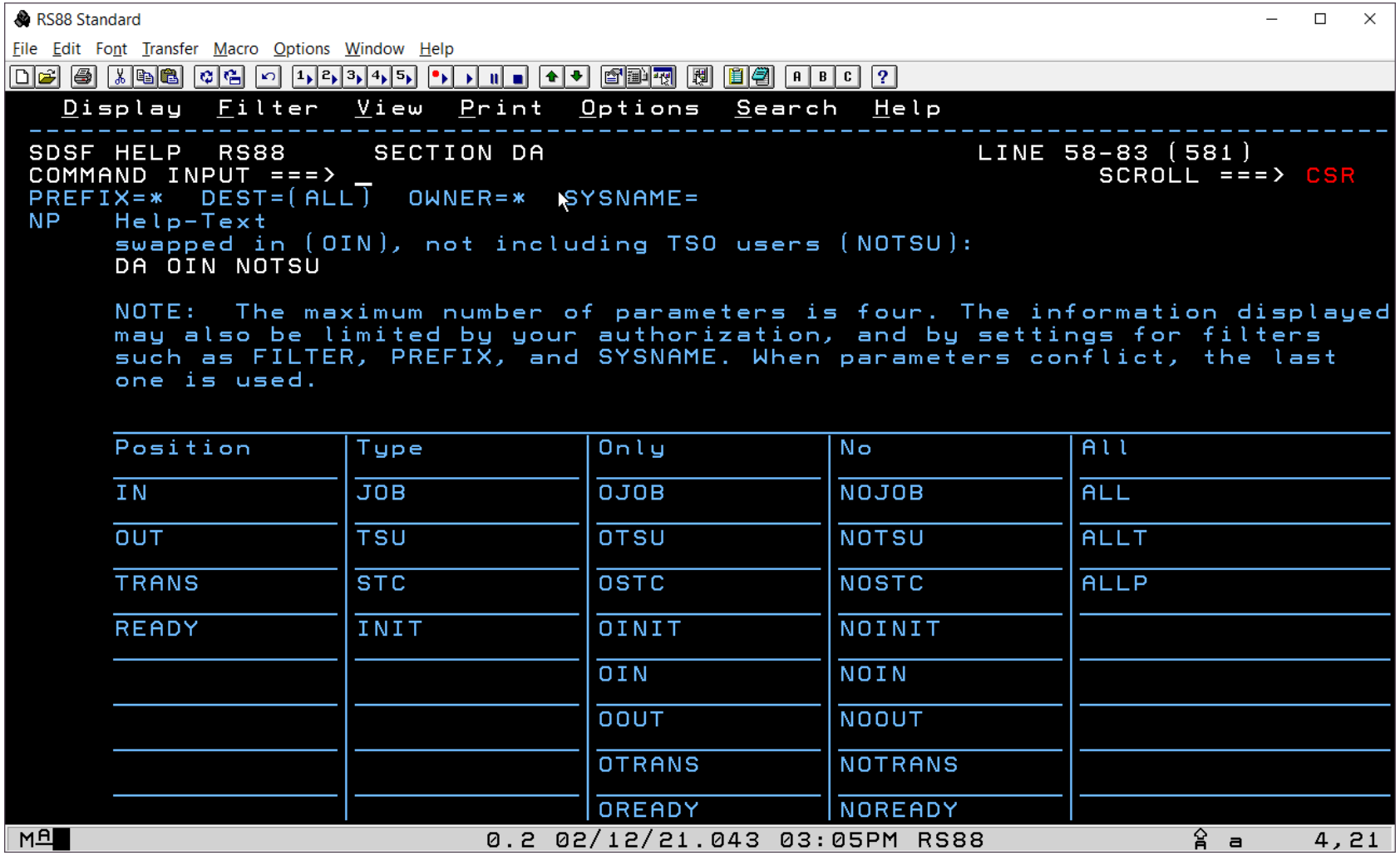
SEARCH Command – Example Select



Note the starting line number “58-83 (581)”

Term matched in this case is “users”

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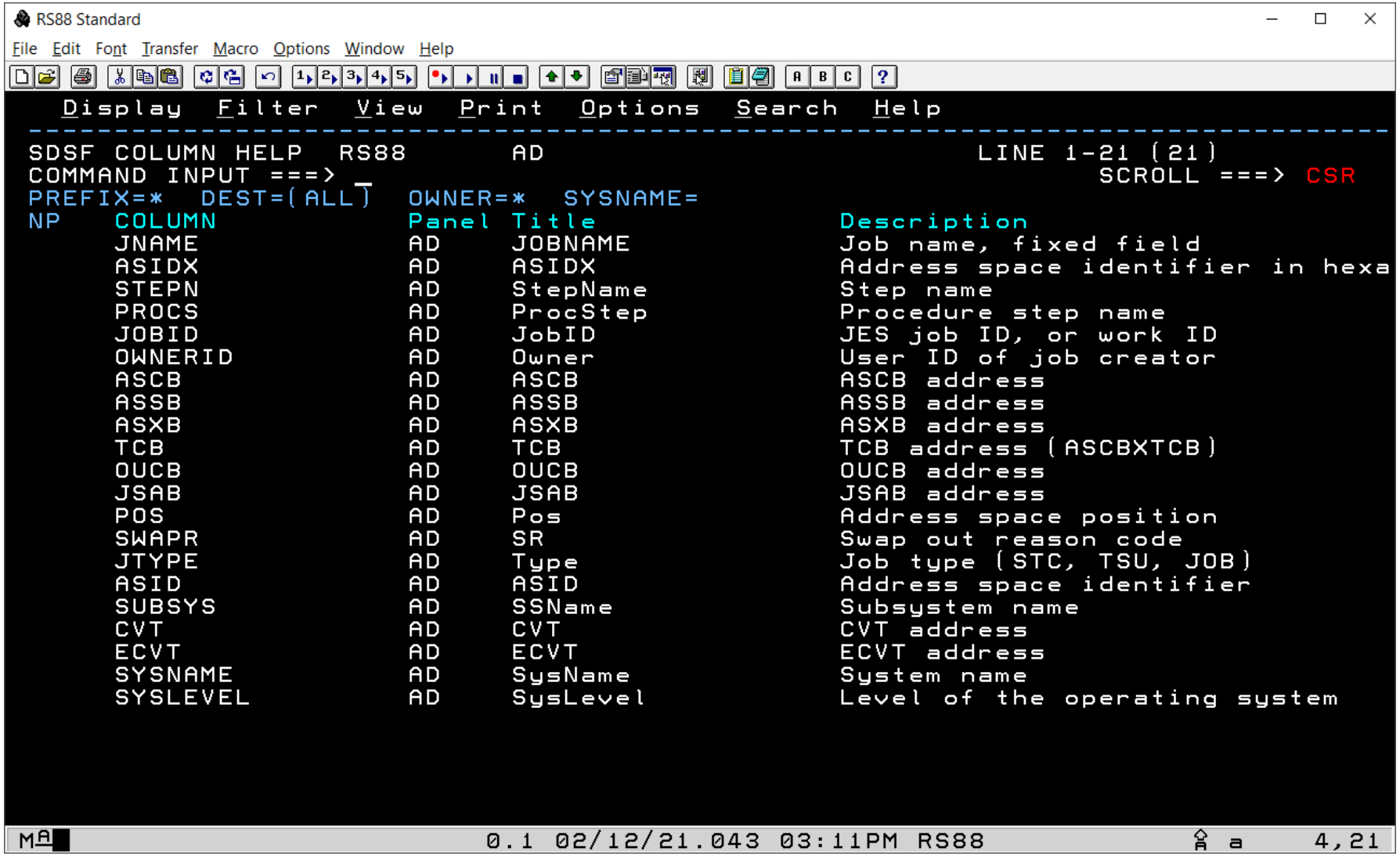
COLH Panel



Show help information for columns on current panel

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

Contents derived from running product meta data

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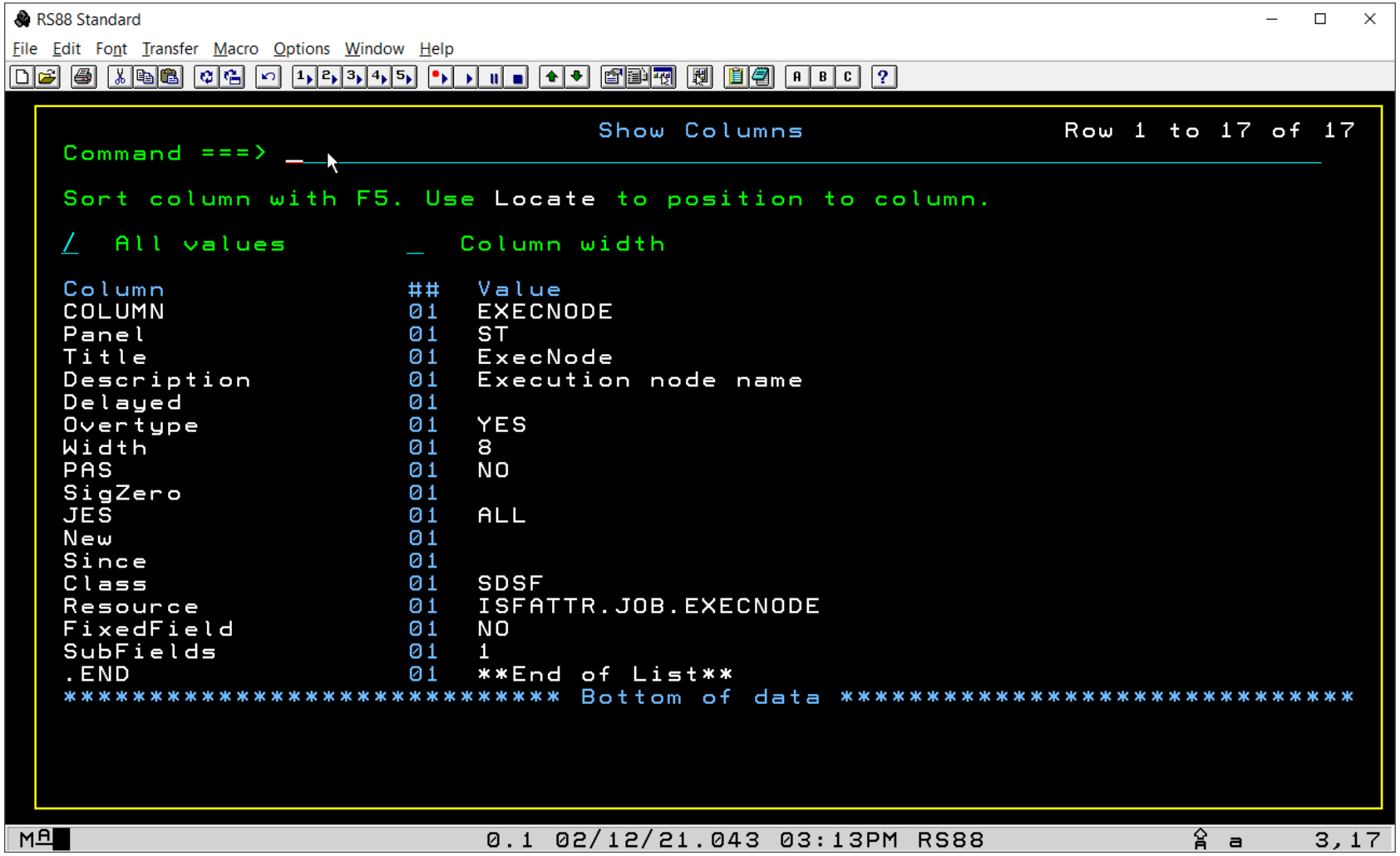
COLH Panel - Columns



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

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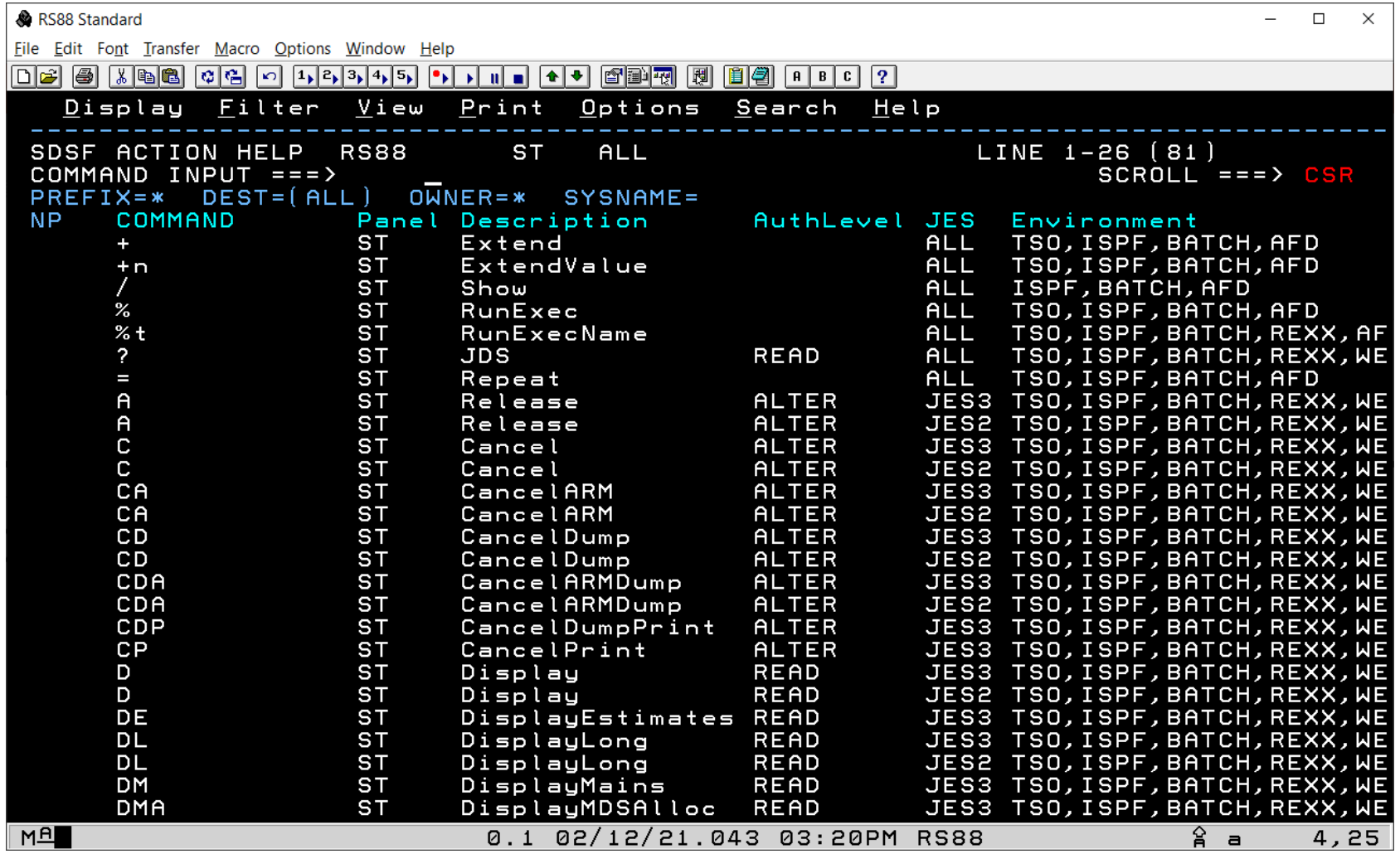
ACTH Panel



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

Includes valid environments, JES and security resources.

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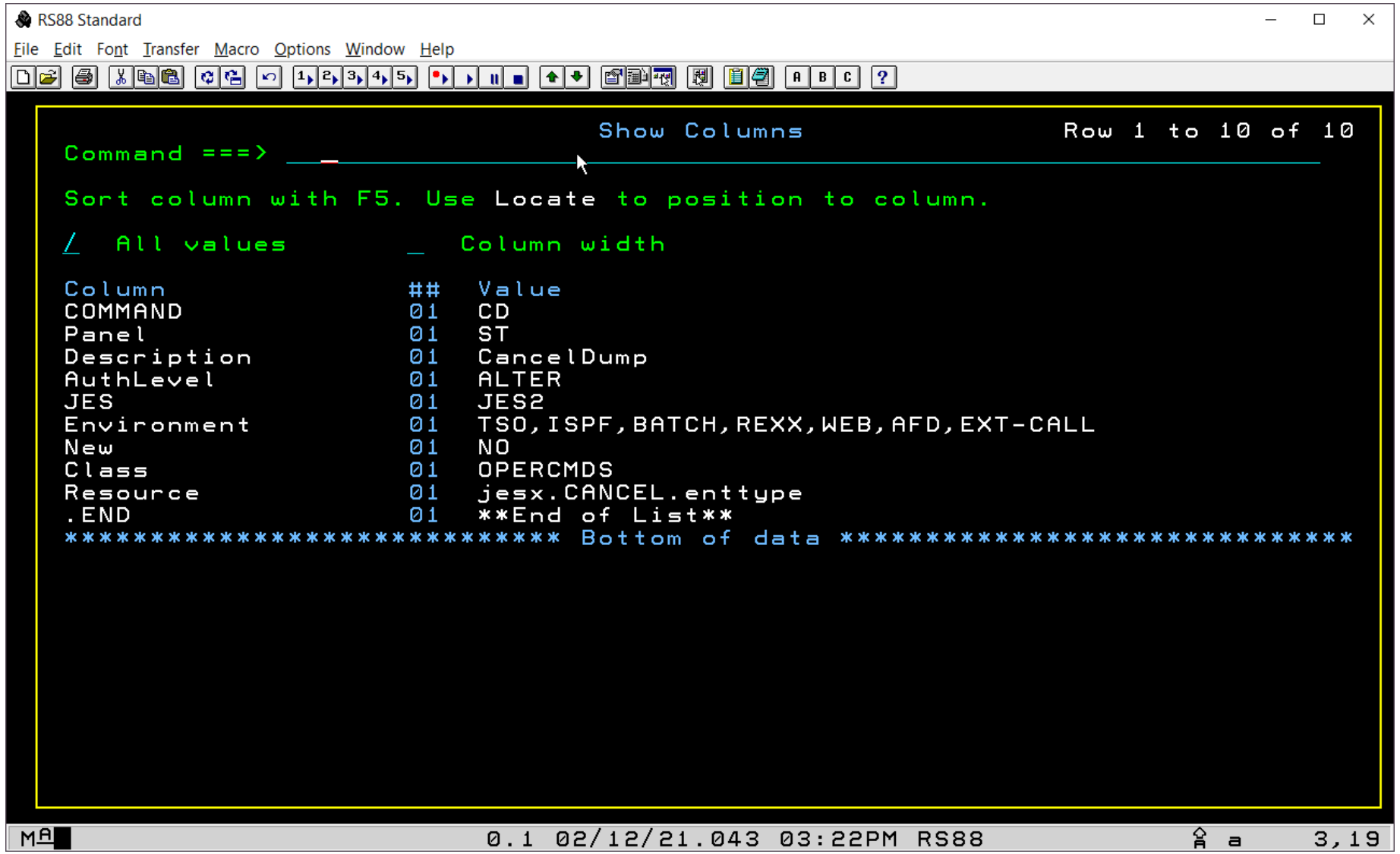
ACTH Panel - Columns



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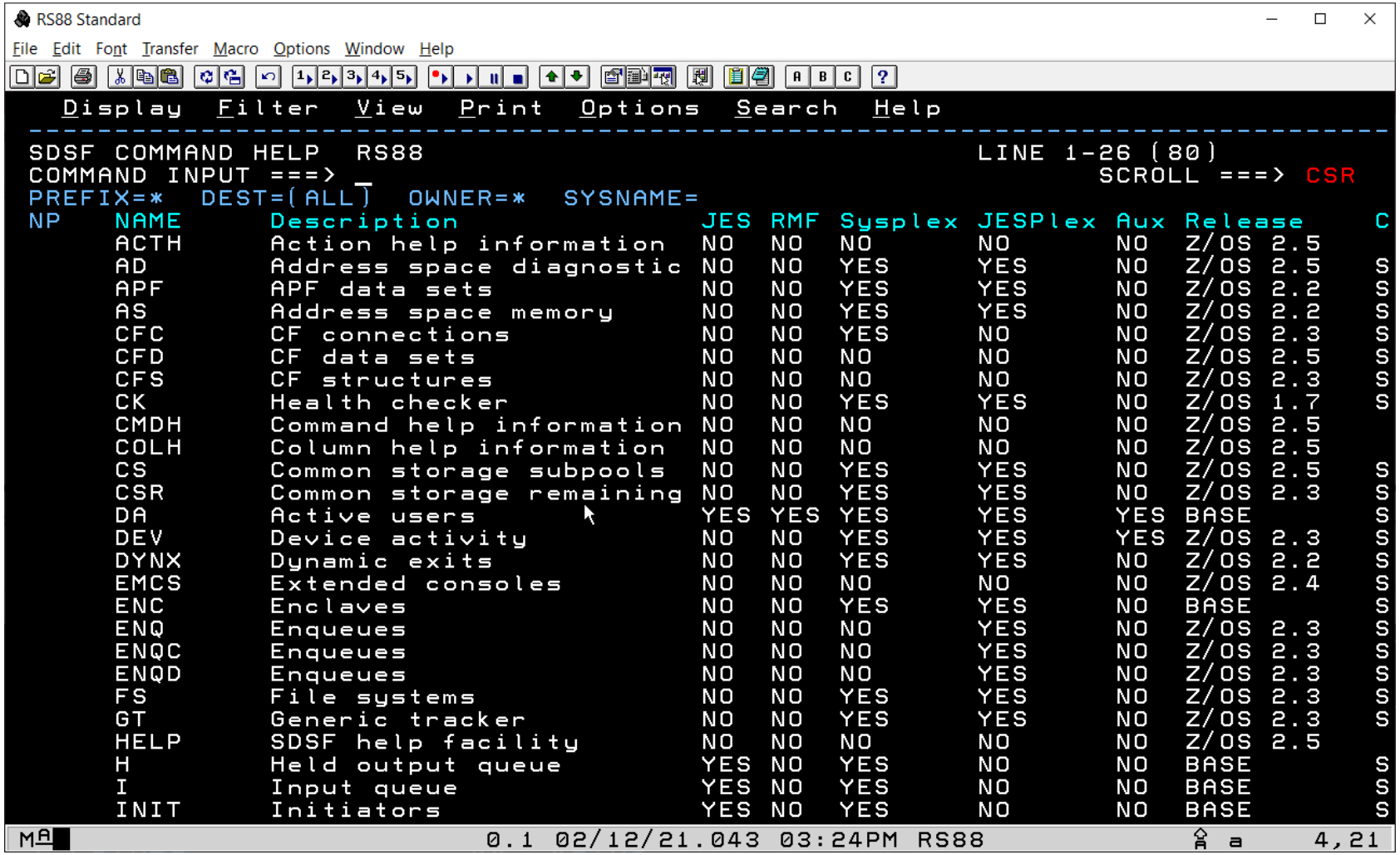
CMDH Panel



Shows attributes for SDSF commands that result in tabular panels

Dependencies on SDSFAUX, RMF and JES shown

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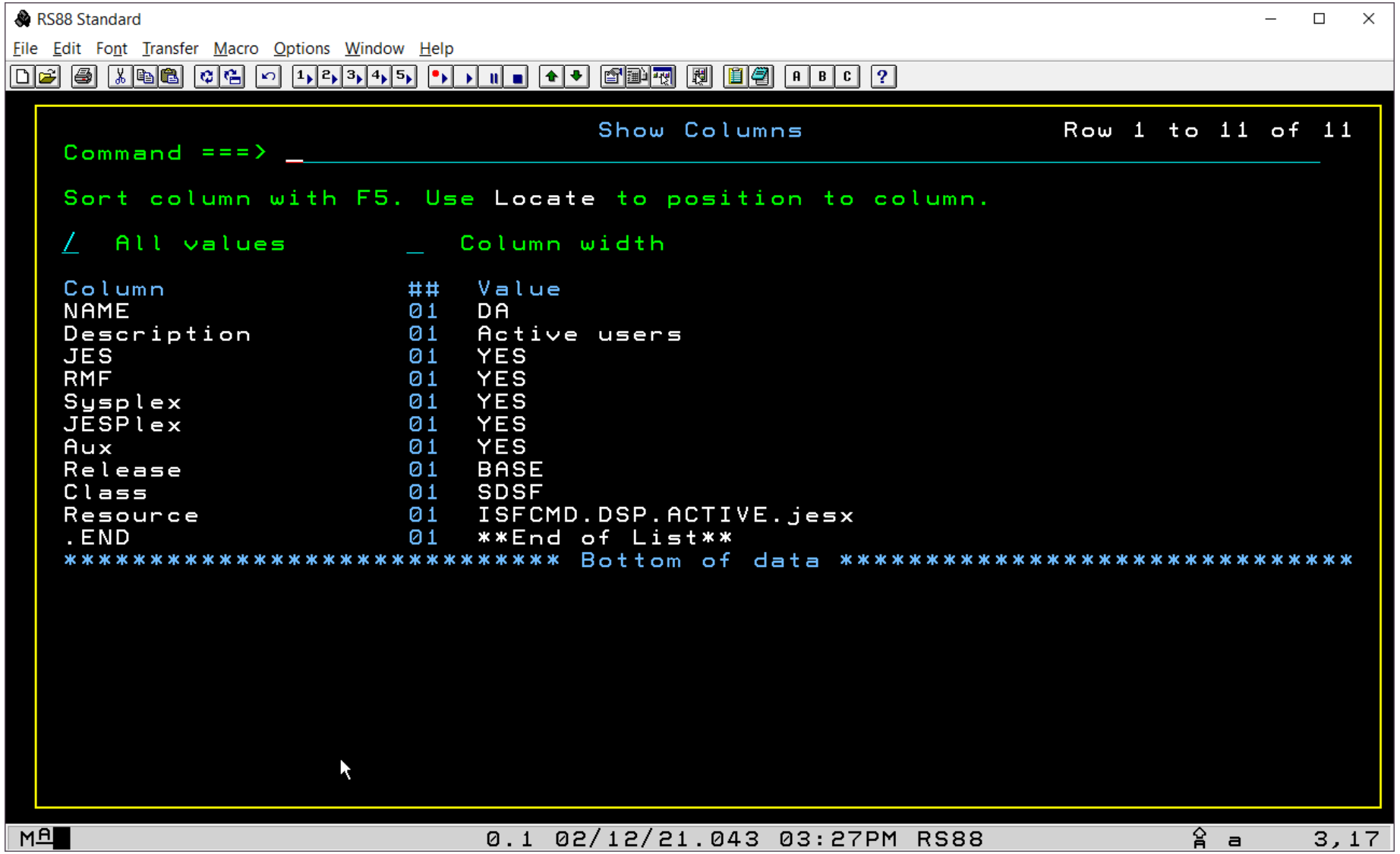
CMDH Panel - Columns



Includes any SAF resource information that protects the command.

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USEABILITY ENHANCEMENTS

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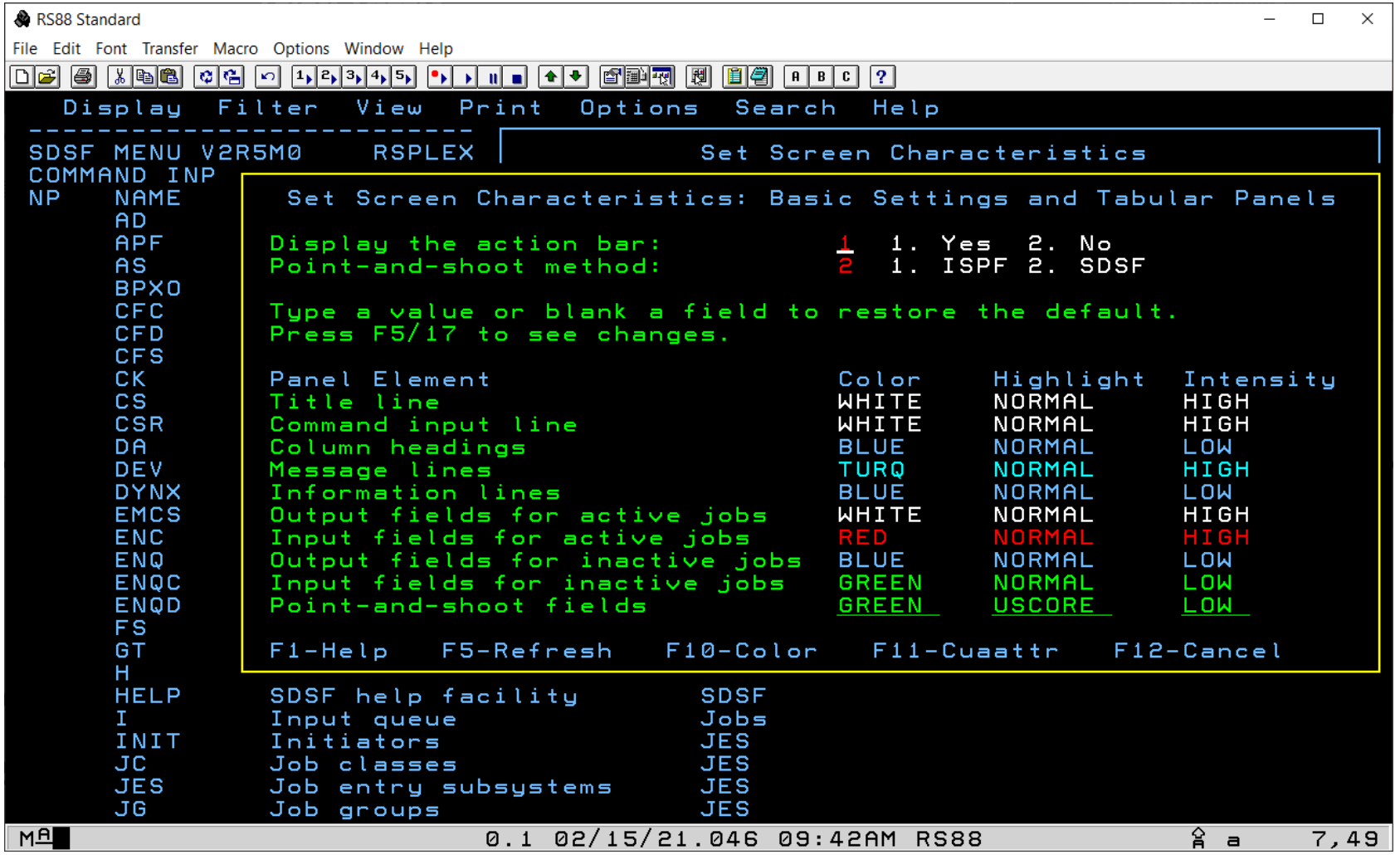
Point-and-shoot Memory Address



Default green underlined attribute

Can be changed using SET SCREEN command

Can use ISPF CUA attributes if desired

Affected by “SET FFPS” (alias “SET PAS”) command

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Miscellaneous Improvements

- 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 CHANGES

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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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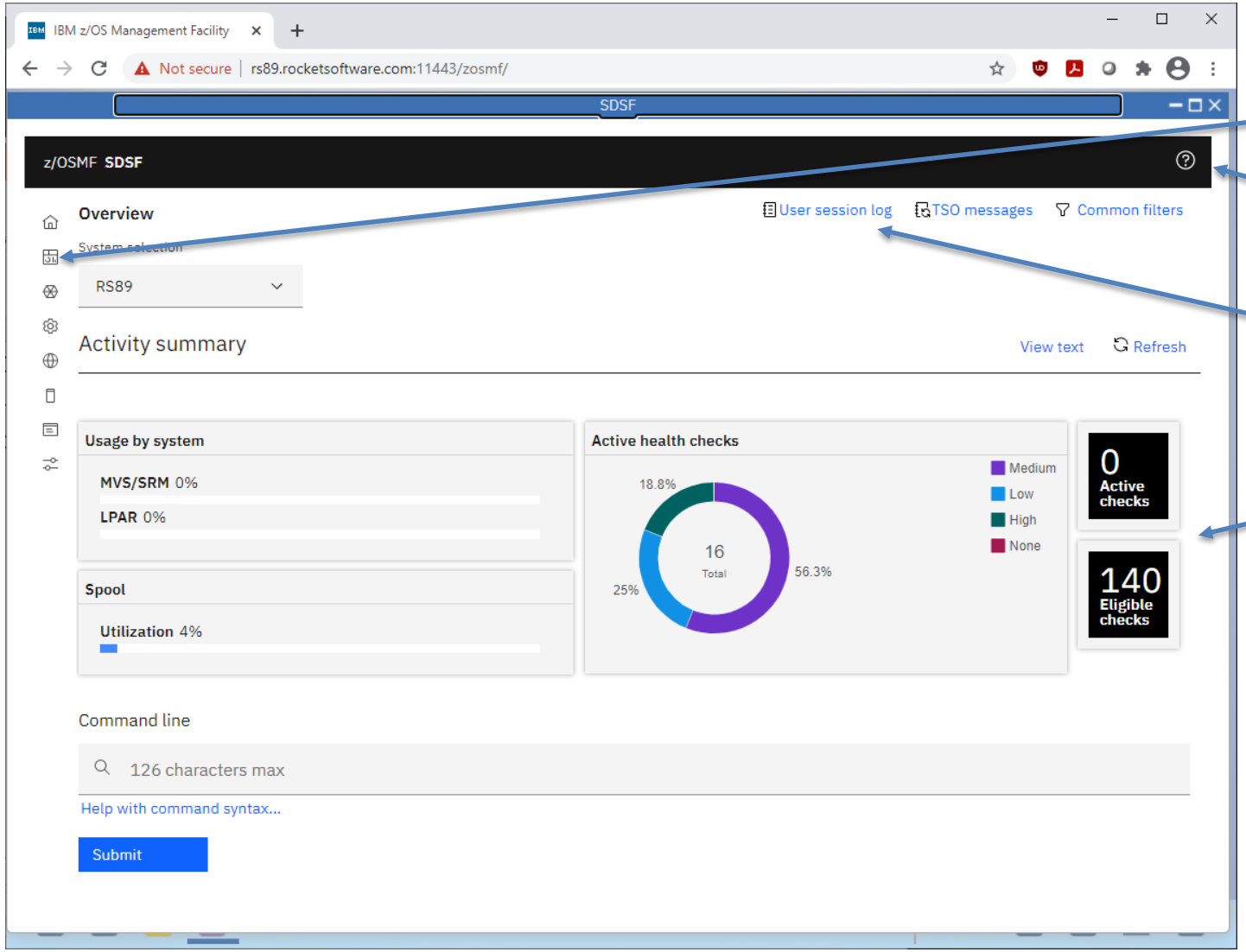
z/OSMF User Interface Changes



Panel selection

Context sensitive help

ULOG link

New graphics

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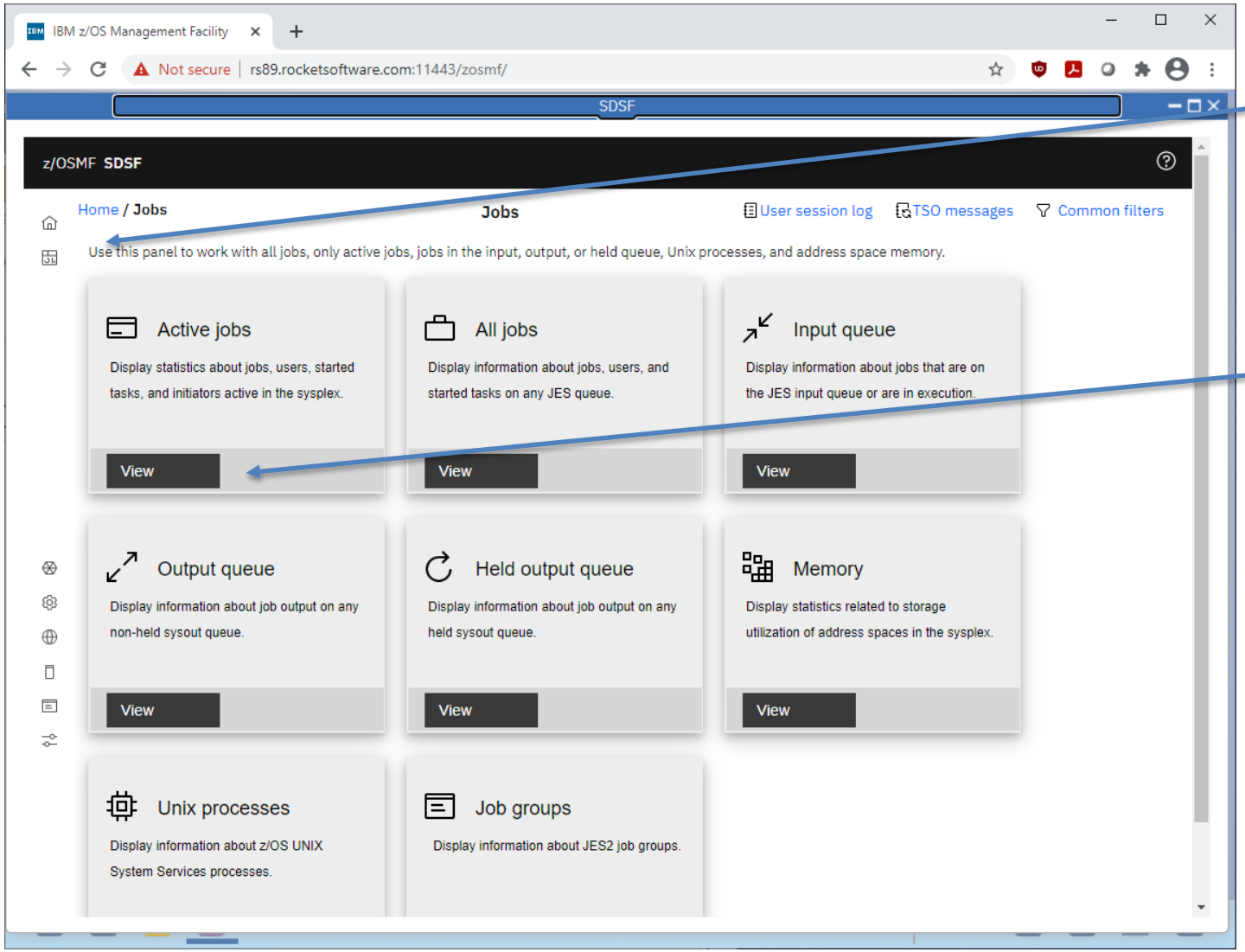
z/OSMF Jobs View



Click Jobs icon to view the panel tiles

Click to view panel

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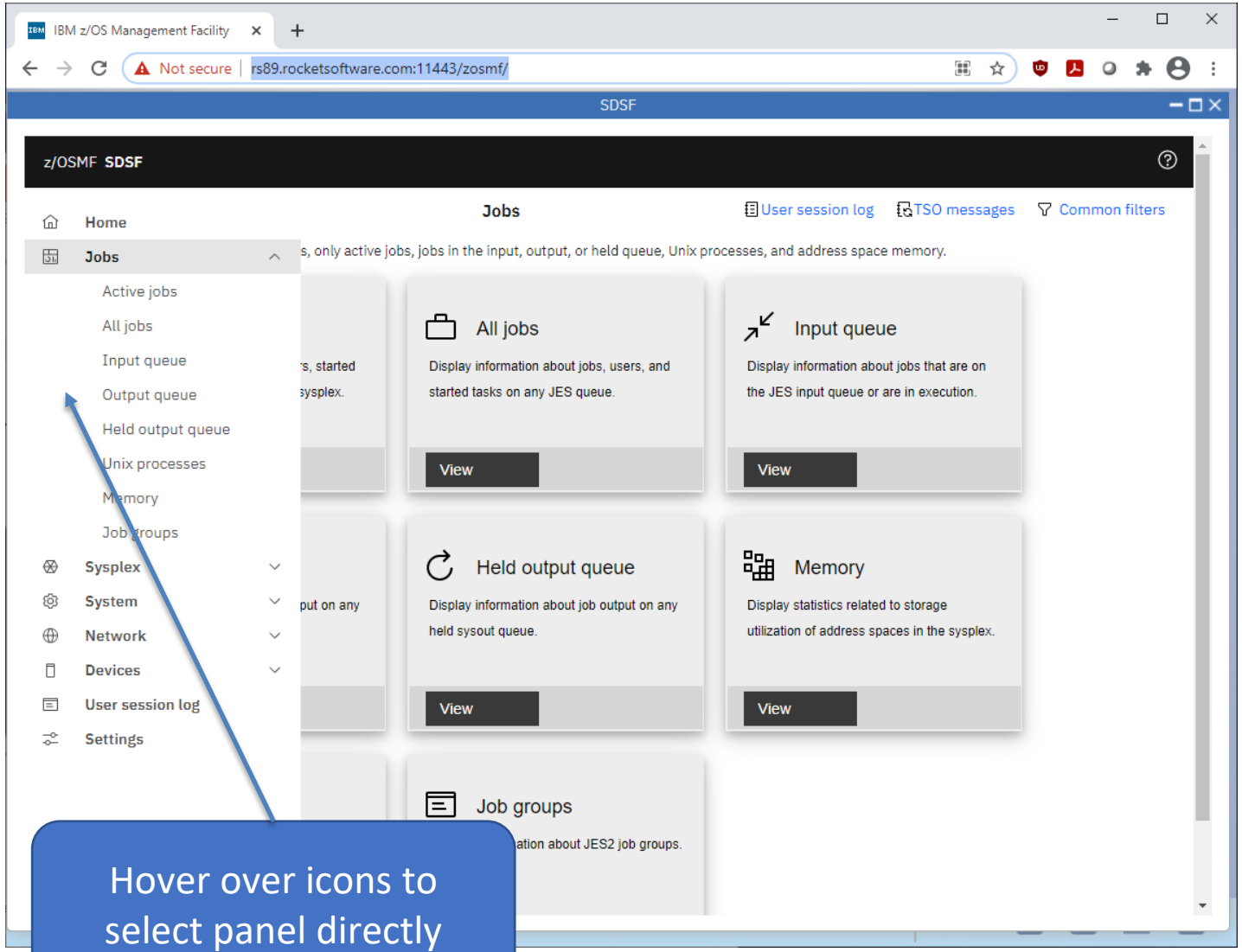
z/OSMF Icon Expansion



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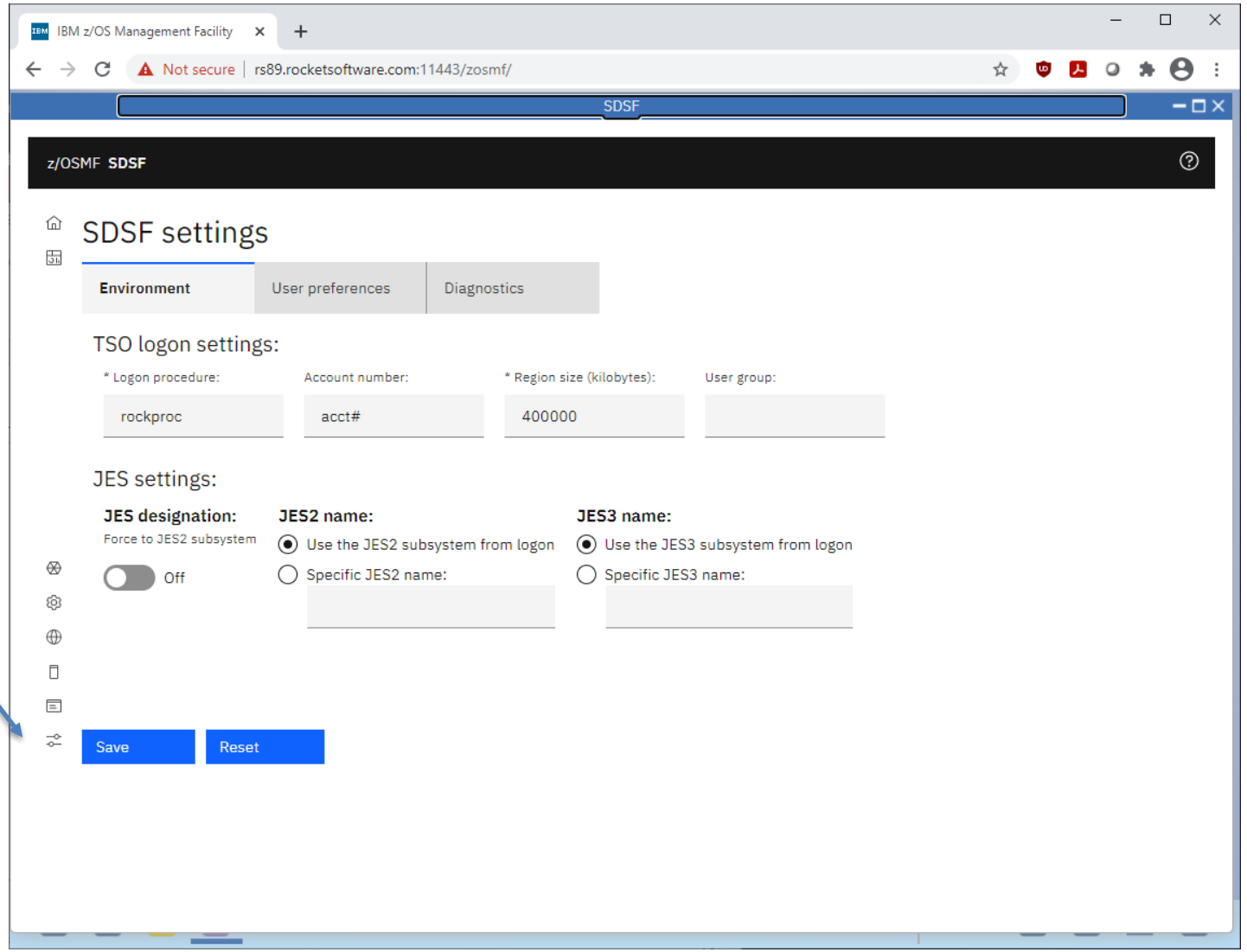
z/OSMF Integrated Settings

Access settings through icon (separate desktop application removed)



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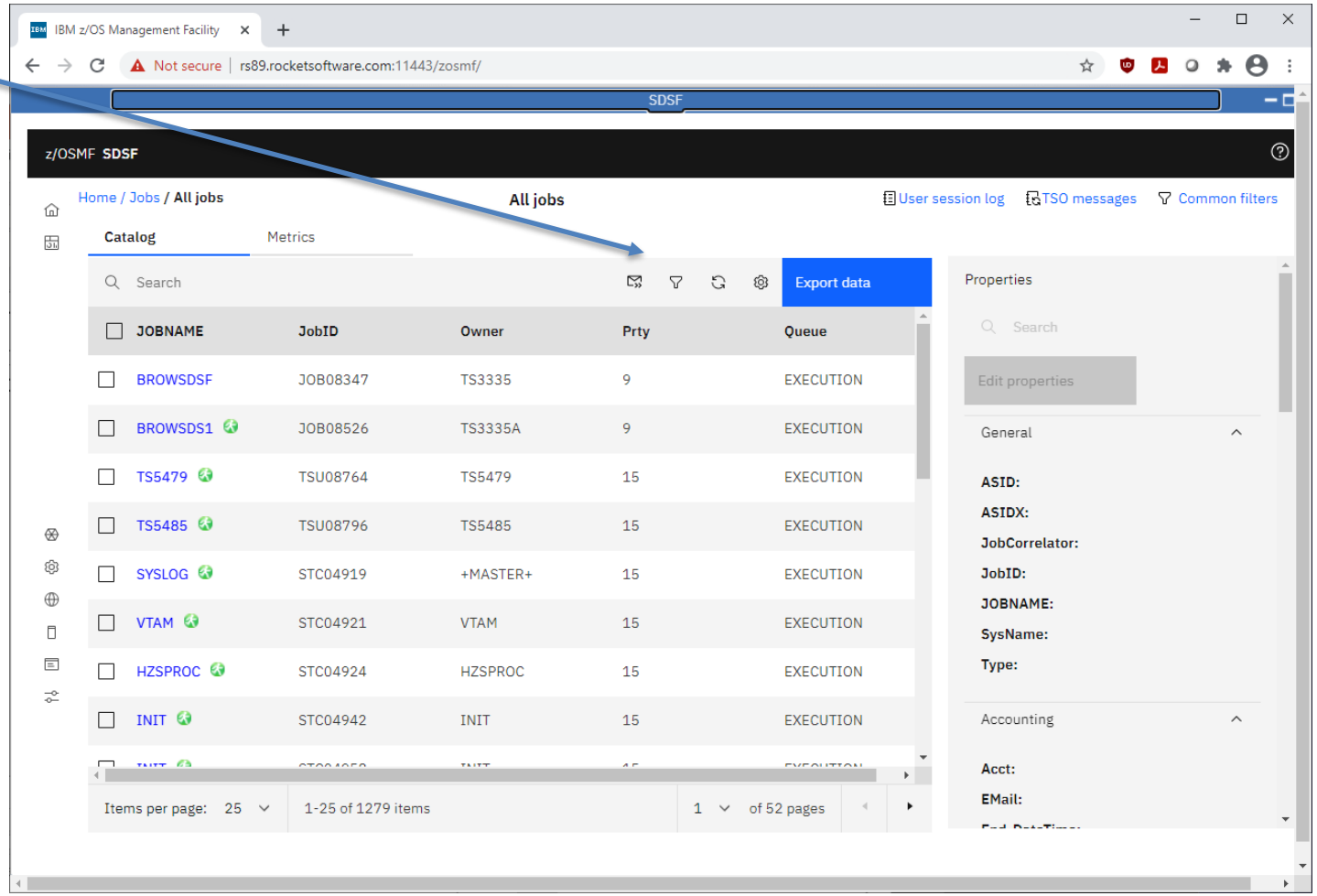
z/OSMF Panel Layout

Controls (filter, settings, refresh)



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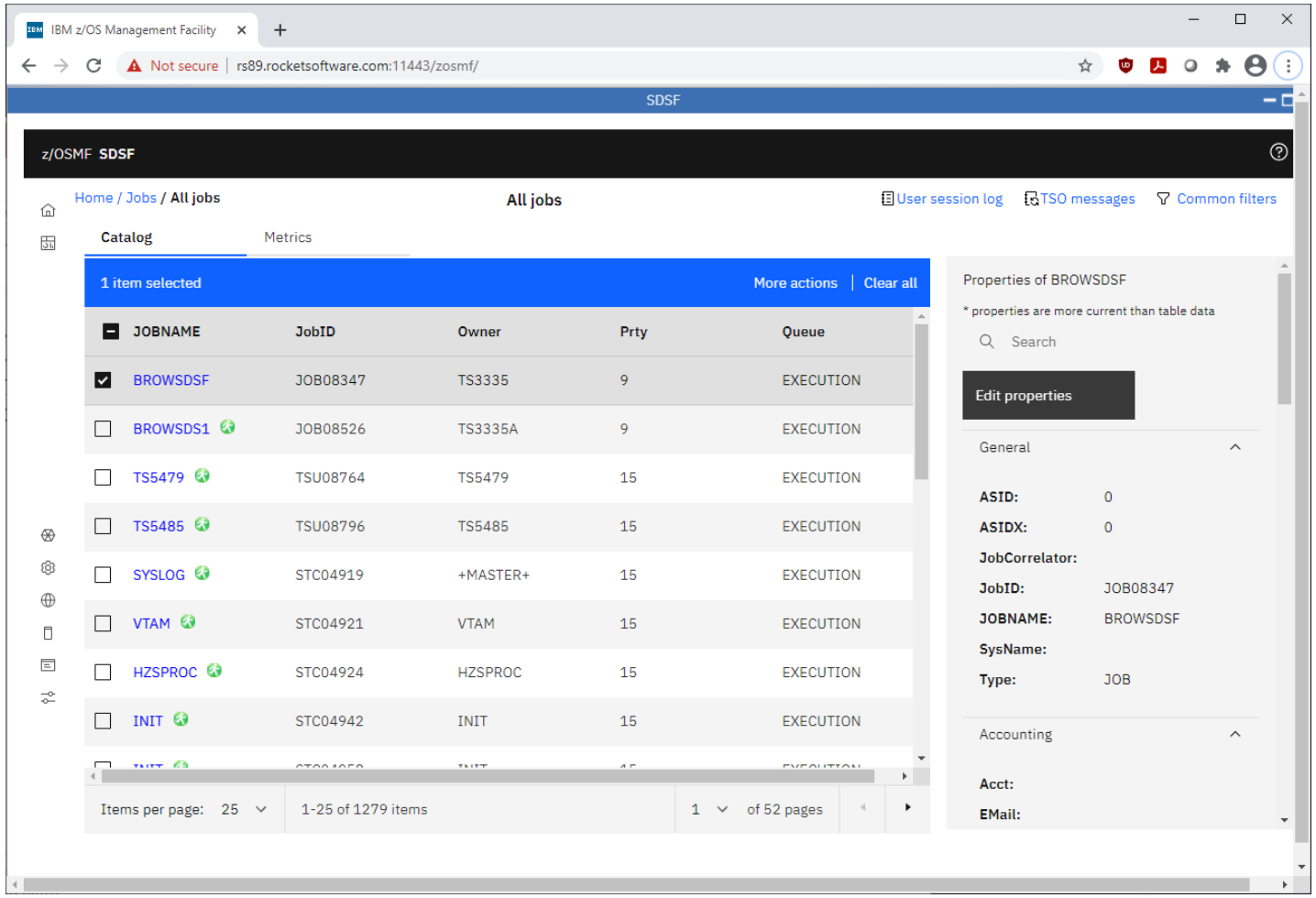
z/OSMF Selected Row



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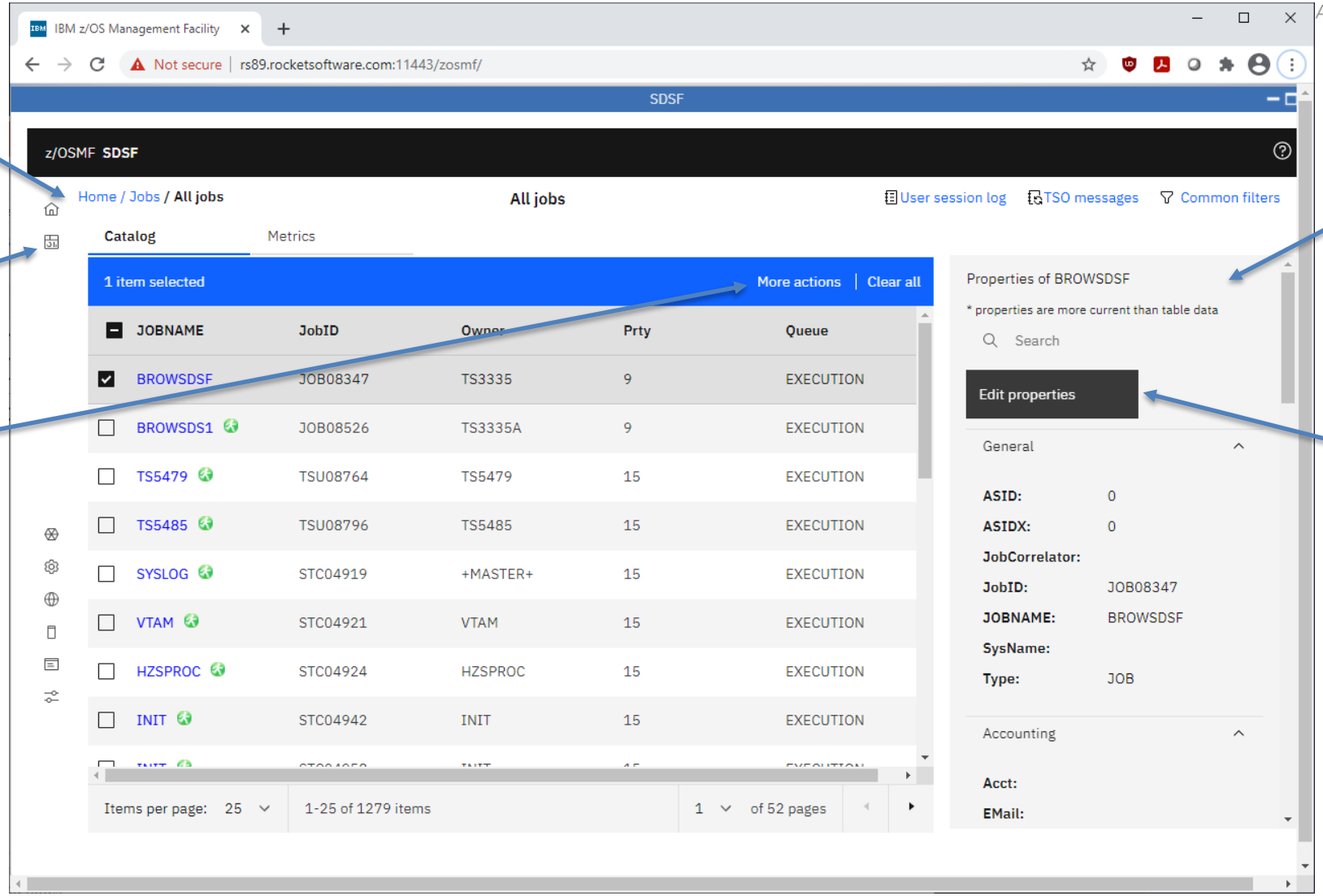
z/OSMF Selected Row Layout



Breadcrumbs for navigation

Toggle view

Actions dialog

Property sheet

Click to edit properties

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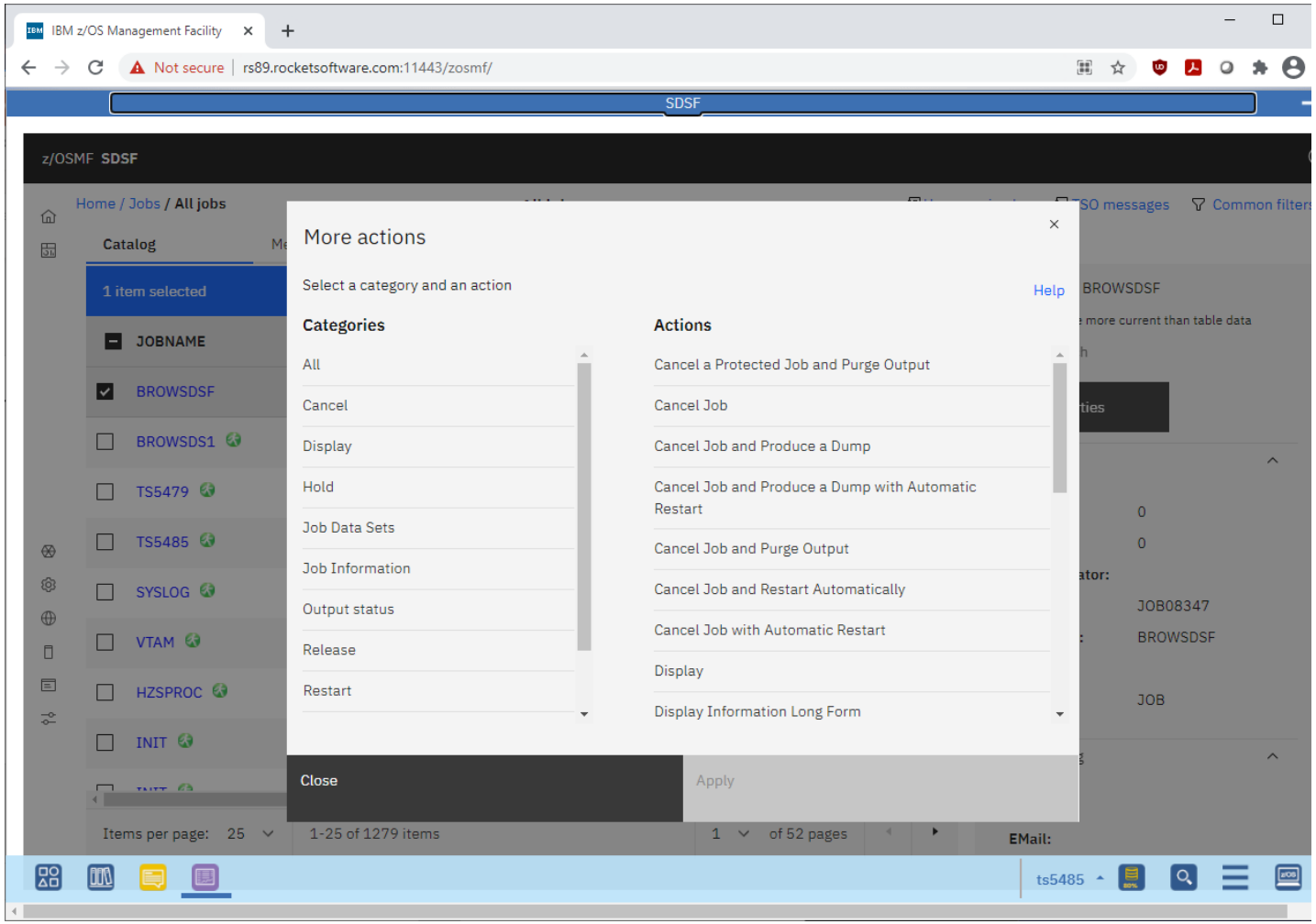
z/OSMF Actions Dialogue



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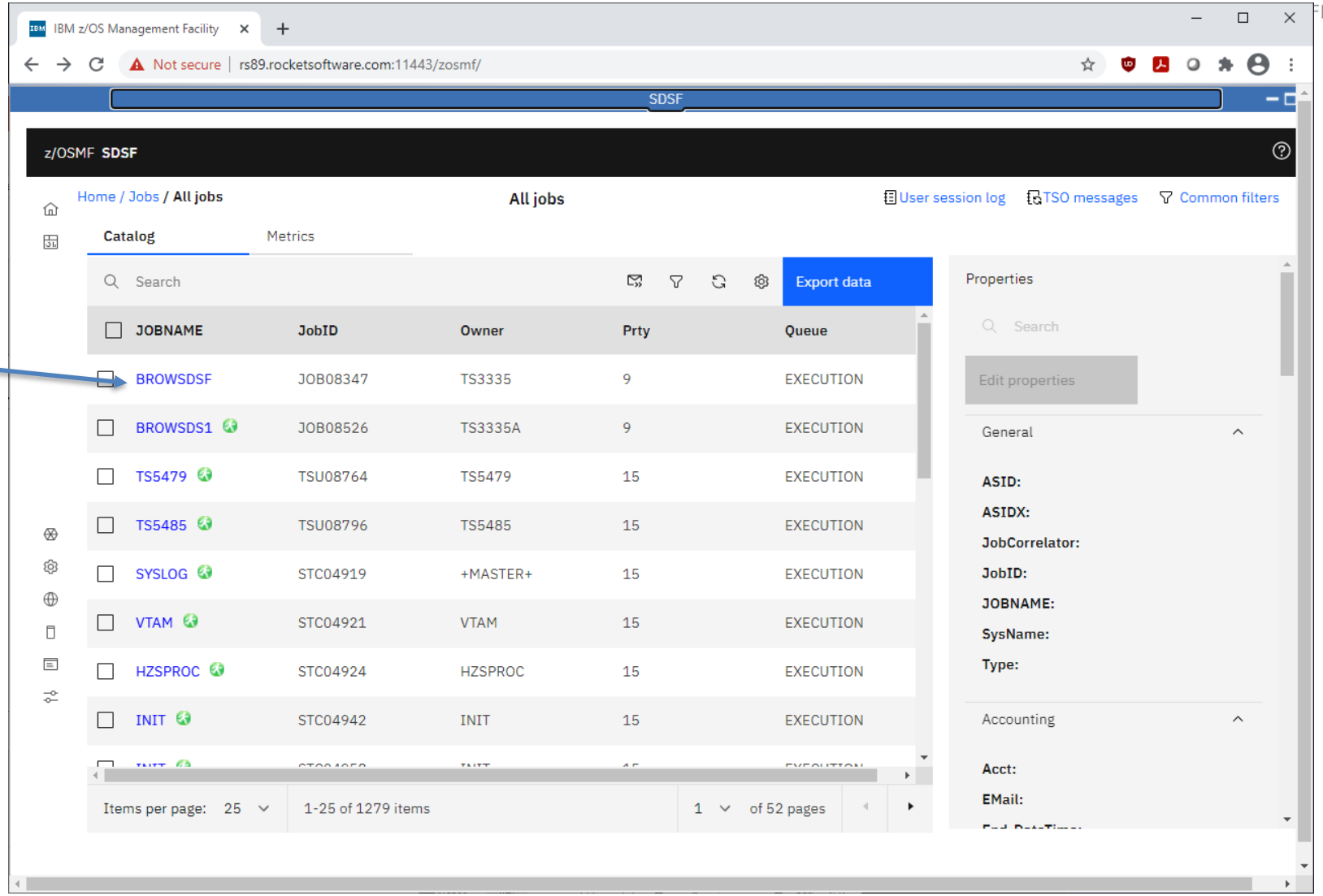
z/OSMF Browse Selection

Click the link



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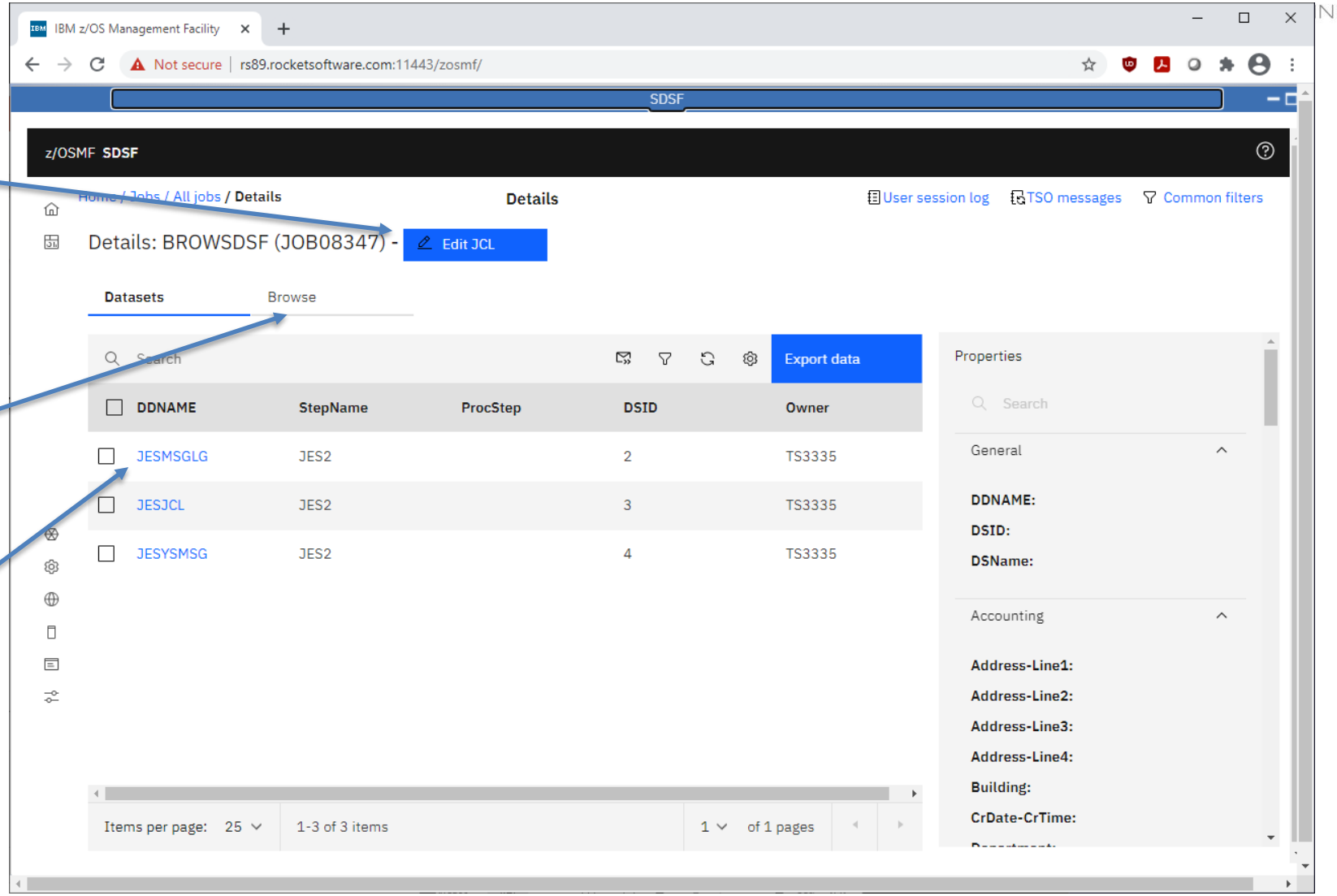
z/OSMF Browse Panel

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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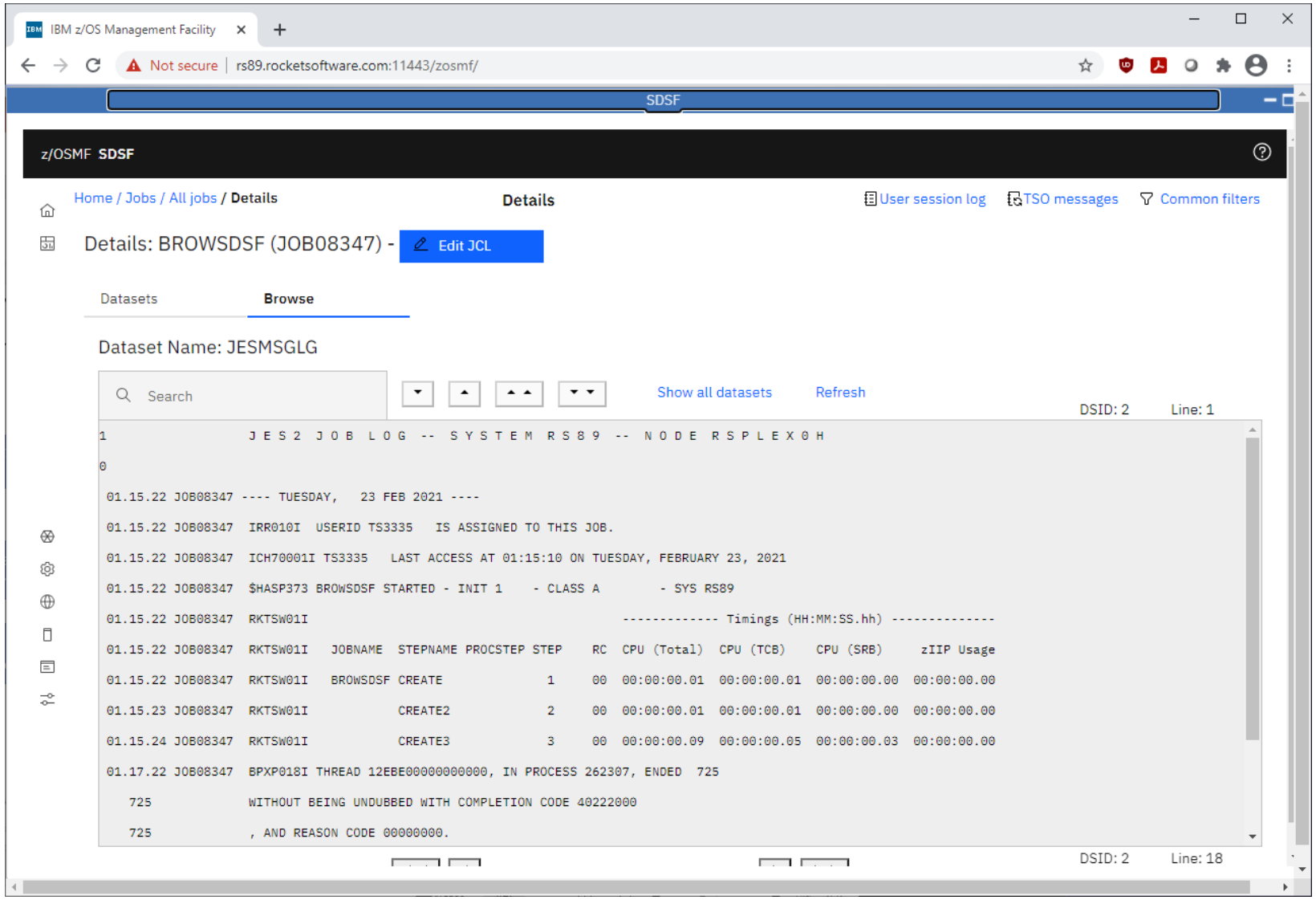
z/OSMF Browse Dataset



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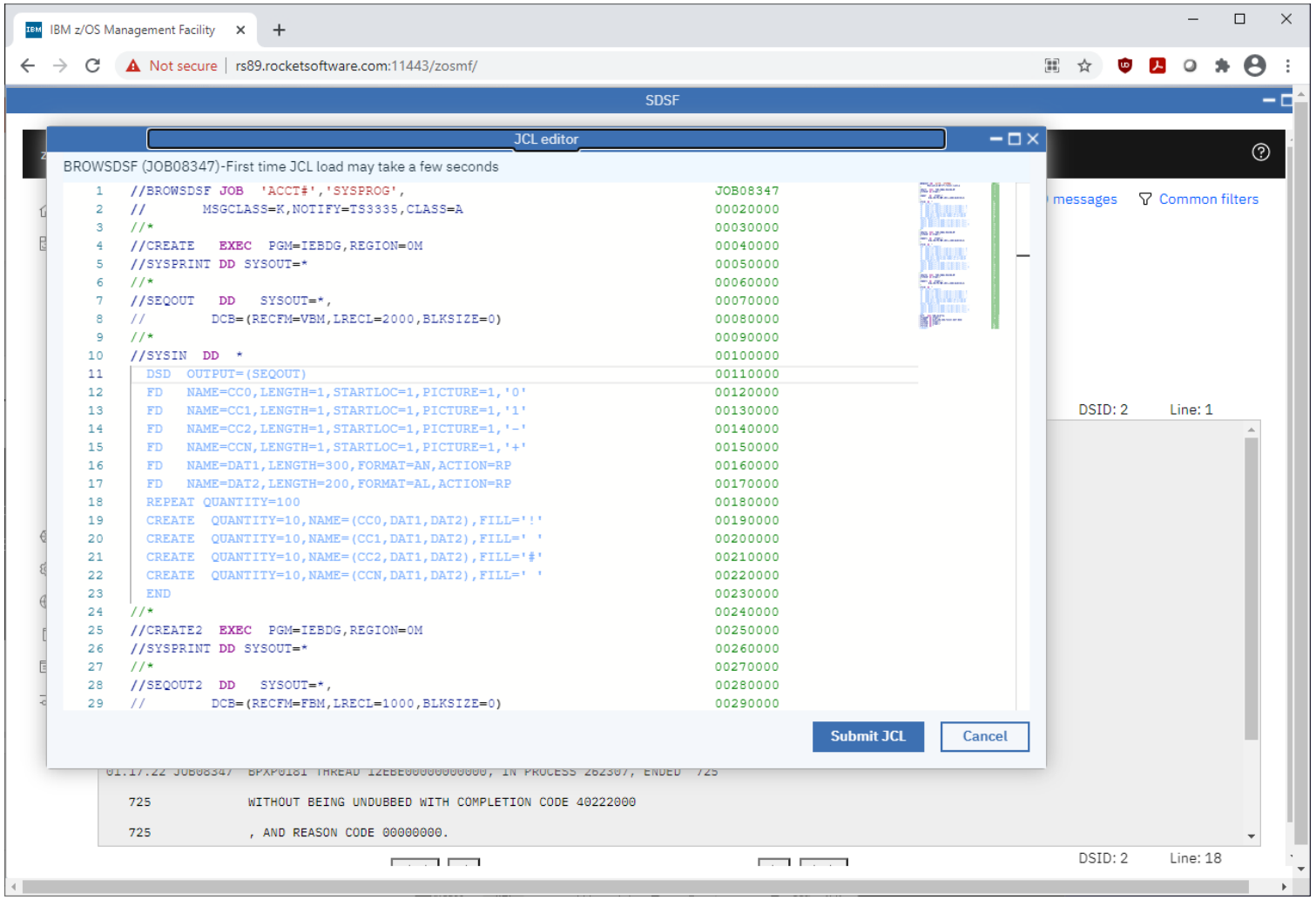
z/OSMF JCL Editor



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INSTALLATION AND CONFIGURATION

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Upgrade and Coexistence

- 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 and 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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DOCUMENTATION AND HELP

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Documentation and Help

- 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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