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(E)JES®

More with Less for Less

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Phoenix Software International, Inc.

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Session 9135



What is (E)JES?

- (E)JES is a system management tool that provides information to monitor, manage, and control a z/OS JESplex.
- (E)JES consists of panels that provide immediate and current information about jobs, devices, queues, and other resources.
- From this series of panels, you can control the processing of jobs and the operation of system resources, browse any data on SPOOL (even JES control blocks), and issue system commands.
- Easily access and modify all attributes for jobs, started tasks, TSO users, APPC/MVS transaction jobs, or z/OS UNIX processes running anywhere in your JESplex.
- (E)JES can be used interactively via 3270 terminal or Windows PC workstation client, or programmatically using many popular languages.
- What does the (E) stand for?
 - **(E)**azy? **(E)**xtended? **(E)**nhanced? **(E)**xceptional? **(E)**d Jaffe?
 - We report; you decide!

We Focus On Leveraging The Latest Hardware/Software Technology. Why?

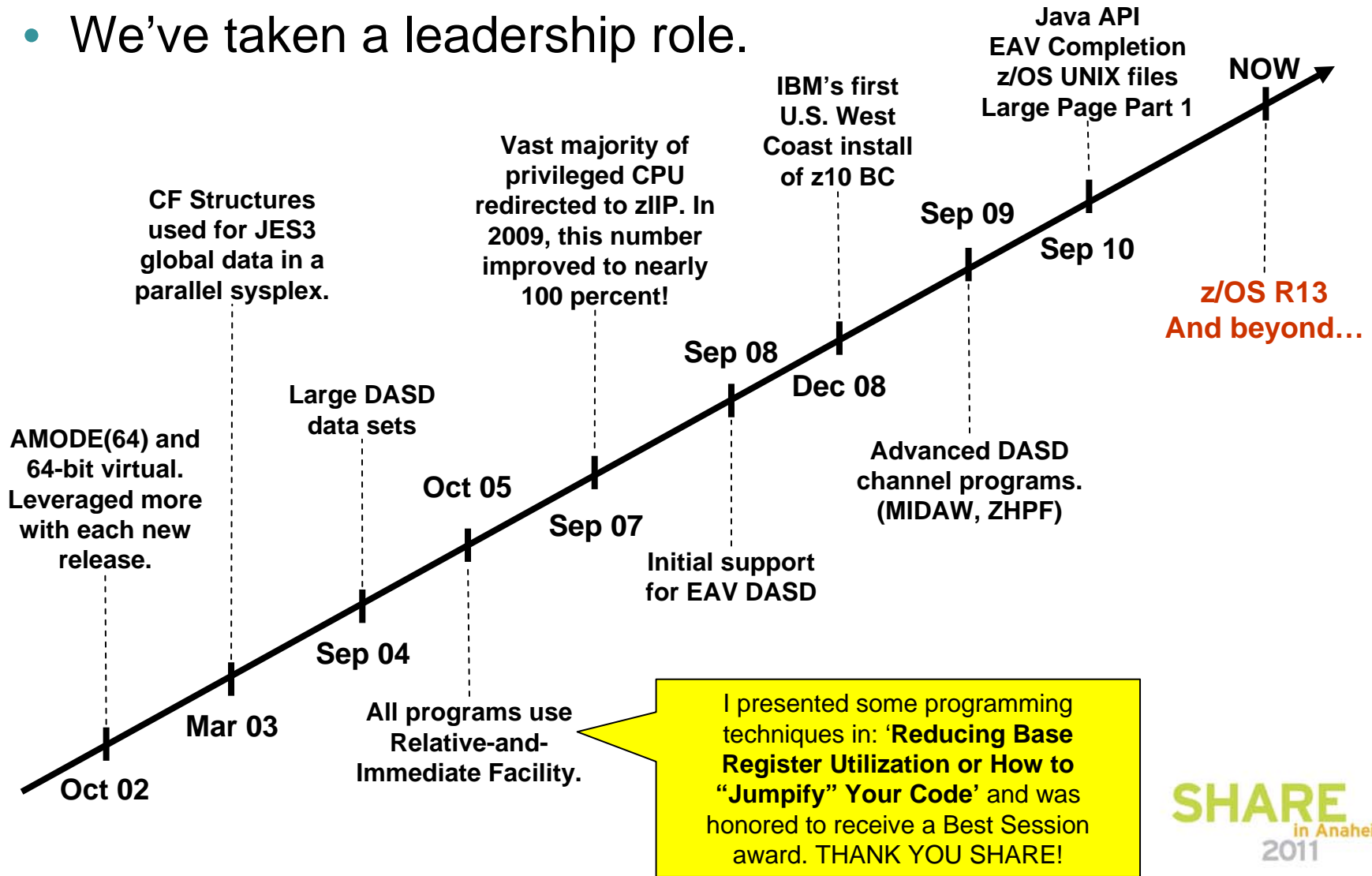


- We care about performance.
 - The latest technology usually means “better performing”.
- We care about reducing customer costs.
 - The latest technology usually helps reduce customer costs.
- We support the z/OS platform!
 - Leveraging the latest technology helps our platform compete against alternatives and remain viable.
- We are a small, “nimble” company.
 - We don’t answer to shareholders w/quarterly profit demands.
 - We stay in touch with our code; we don’t have “legacy” routines people are afraid to change.
- Technology is just plain cool! 8-)

Cool Technology We Leveraged Over The Past Several Years...



- We've taken a leadership role.

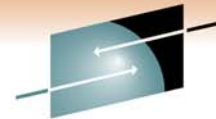


We Focus On Providing The Best Possible Functionality And User Experience. Why?



- We derive great personal satisfaction from our customers using (E)JES every day to perform complex tasks that make them more productive.
- Lots of tiny details eventually add up to significant differences in the way users feel about product quality and functionality.
- A matter of “pride”. We are involved in the mainframe community. Our customers are our friends. Anything less than excellence would be an embarrassment! :-[

The (E)JES “Galaxy”



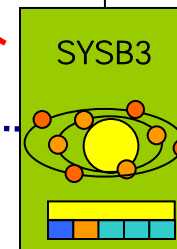
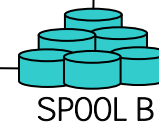
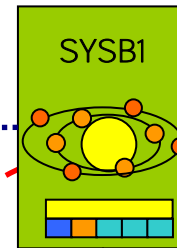
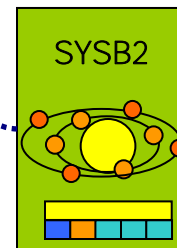
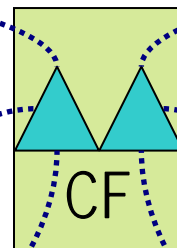
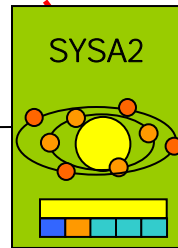
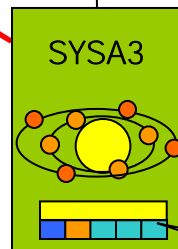
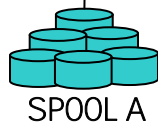
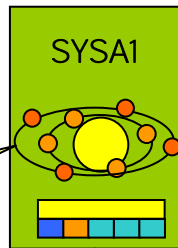
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Parallel Sysplex AB

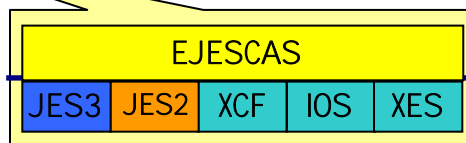
JESplex A

All displays provide Single System JESplex Image
XCF and XES (CF) are part of base z/OS
Fully-automatic configuration; No setup required.

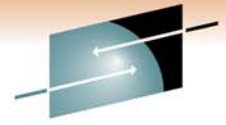
JESplex B



Sophisticated request/response “coat tailing” algorithms used to minimize cross-system activity for XCF and XES. (Not unlike Nagle’s algorithm for TCP/IP—a means of improving efficiency by reducing the number of packets that need to be sent over the network.)

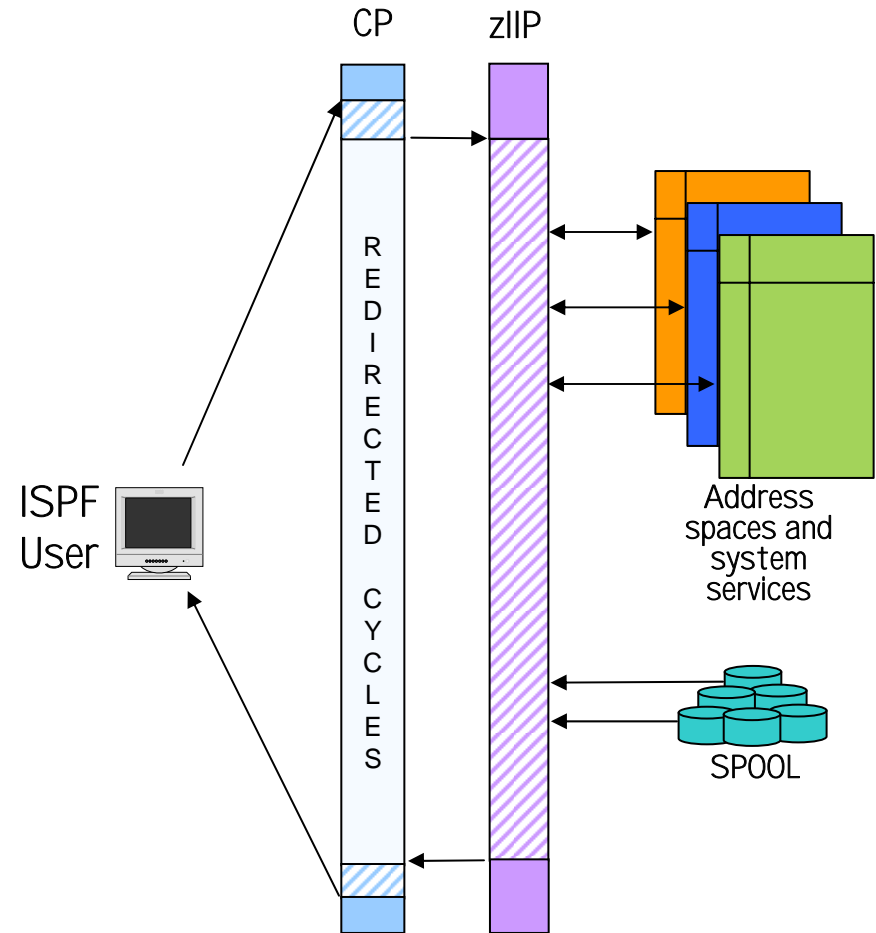


(E)JES “Solar System”

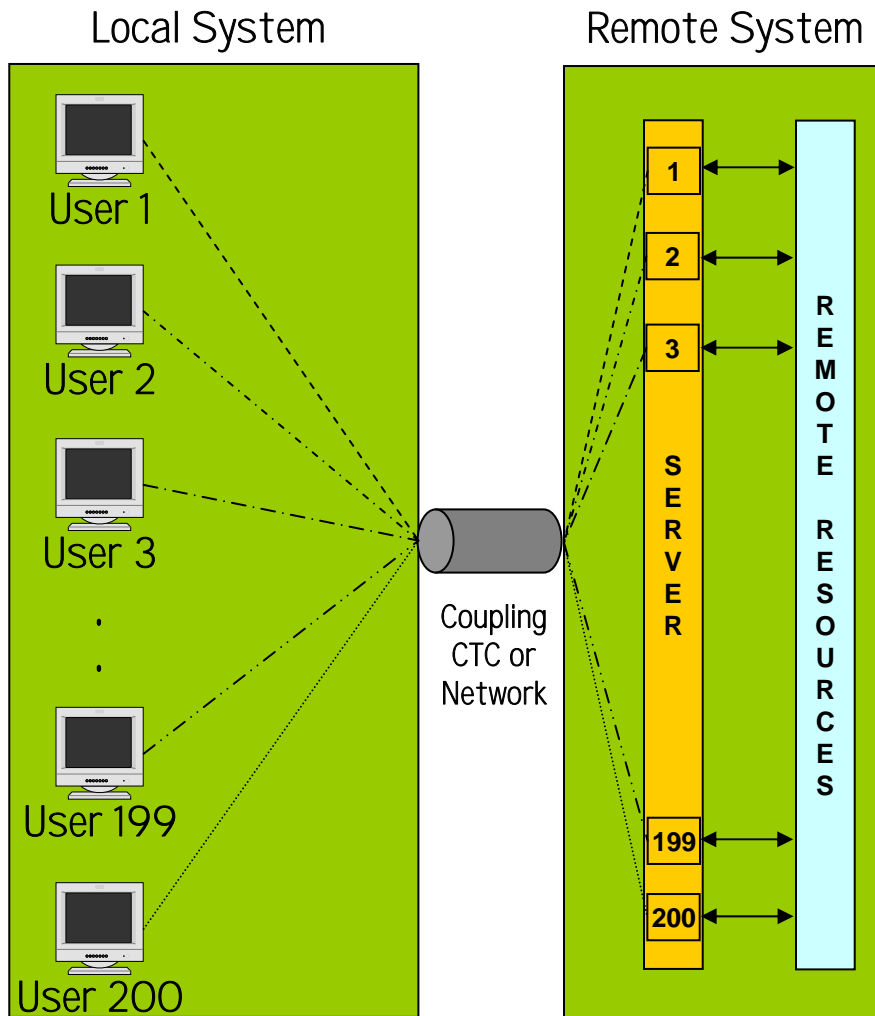


Benefits of zIIP Redirection

- Cycles consumed on zIIP don't count towards the capacity upon which software running in the LPAR is priced for IBM WLC and ISVs like Phoenix that provide sub-capacity pricing.
- zIIPs are often underutilized so there is less contention and processor delay.
- zIIPs run full speed—faster than CPs on smaller, sub-capacity System z models.

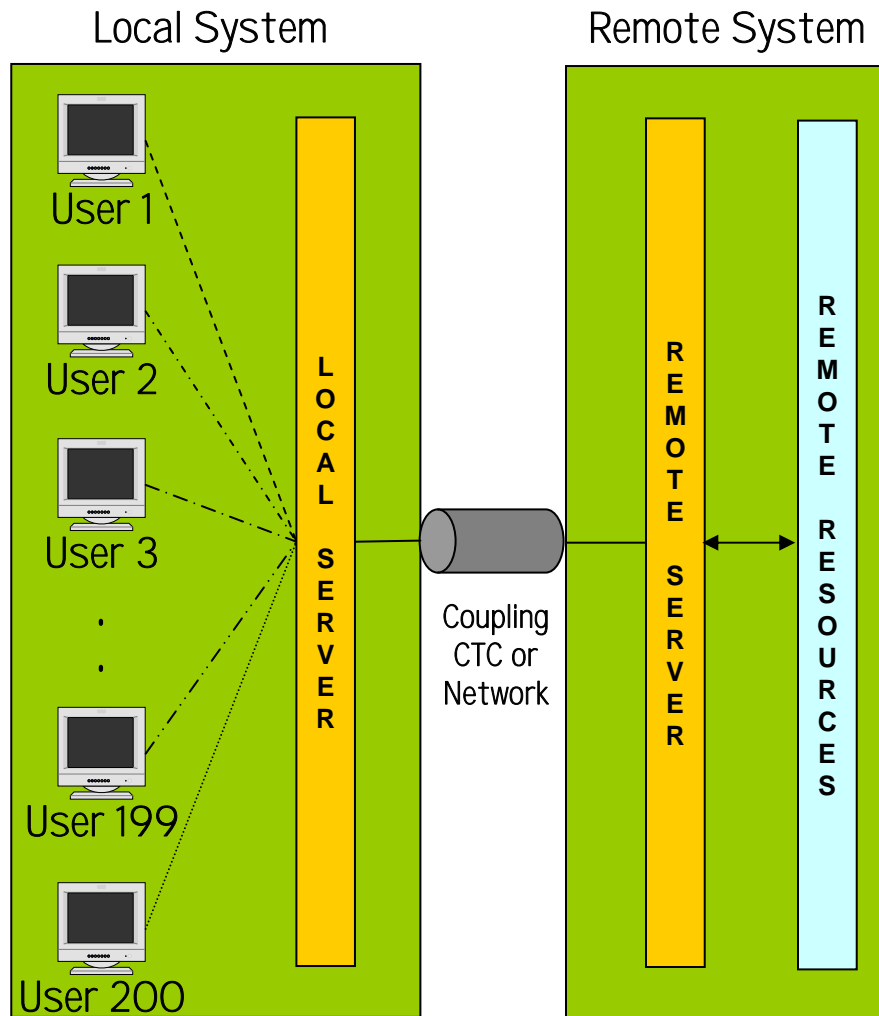


Traditional Multisystem Client/Server Request/Response Model

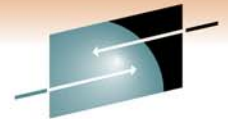


- Each request is independent.
- No matter how many similar requests occur at almost the same time, the resources required are N times those needed for a single request.
- Performance can suffer with many similar requests due to:
 - Duplication of effort
 - High CPU utilization
 - Resource pool exhaustion
 - Backed up queues

EJESCAS Multisystem Client/Server Request/Response Model



- Response data stored in local server's private area.
- Clients obtain directly from local server using AR mode without server involvement.
- Remote server exchange needed only if data is "old".
- Only changed bytes are sent.
- Similar requests occurring at almost the same time drive at most only a single exchange.
- Dramatic CPU savings with no observable delay.



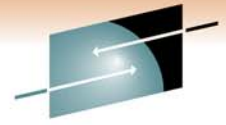
The (E)JES Entry Panel

```
Jobs Resources Devices Tools Filter View Options Help
2011/01/30 (2011.030) (E)JES Entry Panel MVS60/S60 V5R1.0 15:04
Command ==>
Default Command ==> ST

Job Names/Nums ==> /AUTO* ==> ==> ==>
Owner IDs ==> ==> ==> ==>
Origins ==> ==> ==> ==>
Destinations ==> ==> ==> ==>
Job Classes ==>
Sysout Classes ==>
Level of Detail ==> MIN (MIN or MAX)
Default Sort ==> TIME (STD,NAME,NUM,PRTY,TIME)
Default SortDir ==> D (Ascending or Descending)
Dynamic Update ==> YES (YES or NO)
Display Jobs ==> YES (YES or NO)
Display STCs ==> YES (YES or NO)
Display TSUs ==> YES (YES or NO)
Display ATXs ==> YES (YES or NO)

Destination Mask
Use wildcard characters
for imprecise matching.
Use a "/" in position 1
to exclude.

F1=Help F3=Exit F10=Actions F12=Cancel
MA D 12/051
```



Tabular Displays

Common to Both JESes

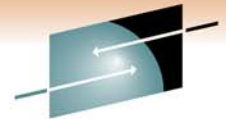
- Activity
- Hold
- Input
- Output/Writer
- z/OS Unix Processes
- Job Status
- Enclaves
- Health Checker
- Health Check History
- WLM Resources
- Scheduling Environments
- System Requests
- JESplex members
- Job Classes
- Nodes
- Printers and Punches
- Spool Volumes
- Data Set Status
- Hold Data Sets
- Output/Writer Data Sets
- Output Descriptors

Specific to JES2

- Resource Monitor
- Initiators
- Lines
- Spool Offloaders

Specific to JES3

- DJC Network Control
- DJC Job Status
- MDS
- NJE Output
- Job Zero Data Sets
- Functional Subsystems
- Job Class Groups (Initiators)
- Spool Partitions
- Sysout Classes

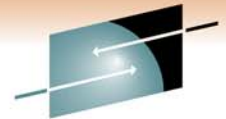


A Few Tabular Screen Shots...

Jobs Resources Devices Tools Filter View Options Help									
HOLD 1,352S 40J 0T 108,267 Records (0 Sched)									
Command ==>									
Cmd	JobName	JobID	Status	MaxComp	C	Pri	Dest	Scroll 0Disp	Records CSR
EJESCAS	S0083741	QUEUED	CC 0000	X	144	LOCAL	HOLD	27	
PORTMAP	S0083734	QUEUED	AB S422	S	144	LOCAL	HOLD	1	
DOWNPLEX	S0083387	QUEUED	AB S222	S	144	LOCAL	HOLD	12	
PORTMAP	S0083202	QUEUED	AB S422	S	144	LOCAL	HOLD	1	
ALLOCZFS	J0083110	QUEUED	CC 0000	H	144	LOCAL	HOLD	57	
		QUEUED		H	144	LOCAL	HOLD	16	
		QUEUED		H	144	LOCAL	HOLD	56	
ALLOCZFS	J0083108	QUEUED	CC 0000	H	144	LOCAL	HOLD	57	
		QUEUED		H	144	LOCAL	HOLD	56	
		QUEUED		H	144	LOCAL	HOLD	16	
ALLOCZFS	J0083107	QUEUED	CC 0000	H	144	LOCAL	HOLD	16	
		QUEUED		H	144	LOCAL	HOLD	57	
		QUEUED		H	144	LOCAL	HOLD	56	
ALLOCZFS	J0083106	QUEUED	CC 4095	H	144	LOCAL	HOLD	54	
		QUEUED		H	144	LOCAL	HOLD	1	
		QUEUED		H	144	LOCAL	HOLD	14	
ALLOCZFS	J0083105	QUEUED	CC 0000	H	144	LOCAL	HOLD	16	
ALLOCZFS	J0083106	QUEUED	CC 4095	H	144	LOCAL	HOLD	48	
ALLOCZFS	J0083105	QUEUED	CC 0000	H	144	LOCAL	HOLD	56	
		QUEUED		H	144	LOCAL	HOLD	57	
ALLOCZFS	J0083104	QUEUED	CC 0000	H	144	LOCAL	HOLD	57	
		QUEUED		H	144	LOCAL	HOLD	16	
		QUEUED		H	144	LOCAL	HOLD	63	
ALLOCZFS	J0083103	QUEUED	CC 0000	H	144	LOCAL	HOLD	57	
		QUEUED		H	144	LOCAL	HOLD	56	

F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel

MA D 04/015

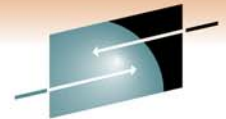


A Few Tabular Screen Shots...

Jobs Resources Devices Tools Filter View Options Help							
PSTATUS	PHXHQ2(S60)						Row 1 of 95
Command	==>					Scroll ==>	CSR
Cmd	JobName	JobID	Status	Owner	ASID	State	CPU%
PSCOTT2	S0161255	OtherKrnlWait	PSCOTT	013D	1K	.22	
PSCOTT	S0161239	OtherKrnlWait/Swap	PSCOTT	0133	1KI	.00	
OMVSKERN	S0161240	FileSysKrnlWait	PSCOTT	0134	1F	.47	
OMVSKERN	S0161238	FileSysKrnlWait/Swap	OMVSKERN	00CB	1FI	.00	
IMWEBSRV	S0161212	OtherKrnlWait	WEBSRV	0034	HK	.09	
GPMSEVE	S0161213	OtherKrnlWait	SYSOPER	002F	HK	.00	
BBNS001S	S0161211	Running	WSSRU1	013C	HR	.07	
BBNS001S	S0161211	WaitForChild	WSSRU1	013C	1W	.07	
HQSRV1	S0161180	Running	SYSOPER	0127	1R	.00	
HQSRV1	S0161180	Running	SYSOPER	0127	1R	.00	
JES2S001	STC	Running	SYSOPER	0051	1R	.00	
ISZSMGR	S0161167	Running	SYSOPER	0031	1R	.00	
DFS	S0161161	MVSPauseWait	SYSOPER	0035	HG	.00	
BBN7ACRS	S0161209	WaitForChild	WSCRUI	0026	1W	.03	
BBN7ACRS	S0161209	Running	WSCRUI	0026	HR	.03	
EJWSBKR	S0161194	FileSysKrnlWait/Swap	PHOENIX	0138	1FI	.00	
SENDMAIL	S0161187	FileSysKrnlWait	TCPIP	012B	1F	.00	
EJWSB480	S0161197	FileSysKrnlWait/Swap	PHOENIX	013B	1FI	.00	
EJWSB470	S0161196	FileSysKrnlWait/Swap	PHOENIX	013A	1FI	.00	
EJWSB460	S0161198	FileSysKrnlWait/Swap	PHOENIX	0139	1FI	.00	
BBNS001	S0161175	Running	WSCRUI	003D	HR	.14	
BBNS001	S0161175	WaitForChild	WSCRUI	003D	1W	.14	
NFSC	S0161169	Running	TCPIP	0042	HR	.01	
PORTMAP	S0161204	FileSysKrnlWait/Swap	TCPIP	0133	1FI	.00	
CFZCIM	S0161171	FileSysKrnlWait	CFZSRV	003C	HF	.09	

F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel

MA D 04/015



A Few Tabular Screen Shots...

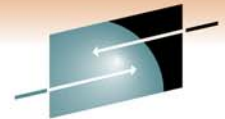
```

Jobs Resources Devices Tools Filter View Options Help
HCHECK 248NX 17Low 17Med 4High 0Del Row 1 of 286
Command ==> Scroll ==> CSR
Cmd Check State Status Result Diag1 D
<-----/----->
ASM_LOCAL_SLOT_USAGE ACT-ENA EXCEPTION-MEDIUM 8 00000000 0
ASM_NUMBER_LOCAL_DATASETS ACT-ENA EXCEPTION-LOW 4 00000000 0
ASM_PAGE_ADD ACT-ENA SUCCESSFUL 0 00000000 0
ASM_PLPA_COMMON_SIZE ACT-ENA EXCEPTION-MEDIUM 8 00000000 0
ASM_PLPA_COMMON_USAGE ACT-ENA SUCCESSFUL 0 00000000 0
CATALOG_IMBED_REPLICATE ACT-ENA SUCCESSFUL 0 00000000 0
CEE_USING_LE_PARMLIB ACT-ENA SUCCESSFUL 0 00000000 0
CNZ_AMRF_EVENTUAL_ACTION_MSGS ACT-ENA SUCCESSFUL 0 00000000 0
CNZ_CONSOLE_MASTERAUTH_CMDSYS ACT-ENA SUCCESSFUL 0 00000000 0
CNZ_CONSOLE_MSCOPE_AND_ROUTCODE ACT-ENA SUCCESSFUL 0 00000000 0
CNZ_CONSOLE_ROUTCODE_11 ACT-ENA SUCCESSFUL 0 00000000 0
-----
Line Commands
A Activate En Extract* U Remove categories
Bv Browse* F Refresh Z Delete
D Display summary H Deactivate ZZ Force
DL Display detail L Long history
DP Display policies P# Print*
DPO Display outdated RUN Run
DS Display status S Short history

* v = blank, B(rowse) or V(iew)
n = blank, D(asd), U(nix), 1 or 2(prt) # = blank, 1 or 2

CSTCP_TCPMAXRCVBUFRSIZE_TCPIP ACT-ENA SUCCESSFUL 0 00000000 0
CSV_APF_EXISTS ACT-ENA SUCCESSFUL 0 00000000 0
F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel
MA D 17/002

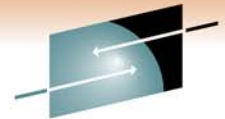
```



A Few Tabular Screen Shots...

```
Jobs Resources Devices Tools Filter View Options Help
RESMON PHXHQ2 Resource Usage Summary Row 1 of 51
Command ==> Scroll ==> CSR
Cmd Resource JMbr Status Limit Used Free Used% Warn% LowUse HighUse
BERT S60 12,100 1,897 10,203 15.67 80 1,897 1,897
BSCB S60 2,000 0 2,000 .00 0 0 0
BUFX S60 300 0 300 .00 70 0 0
CKVR S60 50 0 50 .00 80 0 1
CMBS S60 109 0 109 .00 80 0 0
CMDS S60 100 0 100 .00 80 0 0
ICES S60 9 0 9 .00 80 0 0
JNUM S60 323,001 1,351 321,650 .41 80 1,351 1,351
JOES S60 25,000 779 24,221 3.11 80 779 779
Line Commands
D Display
S Show history
TBUF S60 104 0 104 .00 80 0 0
TGS S60 116,665 9,582 107,083 8.21 80 9,582 9,582
TTAB S60 3 0 3 .00 80 0 0
VTMB S60 2,000 0 2,000 .00 0 0 0
BERT S70 12,100 1,897 10,203 15.67 80 1,897 1,897
BSCB S70 2,000 0 2,000 .00 0 0 0
BUFX S70 300 0 300 .00 70 0 0
CKVR S70 50 0 50 .00 80 0 0
CMBS S70 109 0 109 .00 80 0 0
CMDS S70 100 0 100 .00 80 0 0
ICES S70 9 0 9 .00 80 0 0
JNUM S70 323,001 1,351 321,650 .41 80 1,351 1,351
F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel
MA D 15/002
```

Cmd	Resource	JMbr	Status	Limit	Used	Free	Used%	Warn%	LowUse	HighUse
BERT	S60			12,100	1,897	10,203	15.67	80	1,897	1,897
BSCB	S60			2,000	0	2,000	.00	0	0	0
BUFX	S60			300	0	300	.00	70	0	0
CKVR	S60			50	0	50	.00	80	0	1
CMBS	S60			109	0	109	.00	80	0	0
CMDS	S60			100	0	100	.00	80	0	0
ICES	S60			9	0	9	.00	80	0	0
JNUM	S60			323,001	1,351	321,650	.41	80	1,351	1,351
JOES	S60			25,000	779	24,221	3.11	80	779	779
Line Commands				6,000	1,352	4,648	22.53	80	1,352	1,352
D	Display			120	0	120	.00	70	0	0
S	Show history			203	0	203	.00	80	0	0
TBUF	S60			104	0	104	.00	80	0	0
TGS	S60			116,665	9,582	107,083	8.21	80	9,582	9,582
TTAB	S60			3	0	3	.00	80	0	0
VTMB	S60			2,000	0	2,000	.00	0	0	0
BERT	S70			12,100	1,897	10,203	15.67	80	1,897	1,897
BSCB	S70			2,000	0	2,000	.00	0	0	0
BUFX	S70			300	0	300	.00	70	0	0
CKVR	S70			50	0	50	.00	80	0	0
CMBS	S70			109	0	109	.00	80	0	0
CMDS	S70			100	0	100	.00	80	0	0
ICES	S70			9	0	9	.00	80	0	0
JNUM	S70			323,001	1,351	321,650	.41	80	1,351	1,351

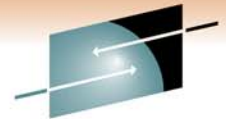


A Few Tabular Screen Shots...

```

Jobs Resources Devices Tools Filter View Options Help
SYSREQ 3R 1I 8C 0E Row 7 of 19
Command ==> Scroll ==> CSR
Cmd MsgID / SysName JobName Message-Text
-----
34073 MVS60 HZSPROC HZS0003E CHECK(IBMUSS,USS_PARMLIB_MOUNTS):
BPXH061E One or more file systems specifie
members are not mounted.
8932 MVS60 VTAM ISTEXC200 - DYN COMMANDS MAY BE ENTERED
Line Commands STER* ILR005E PLPA PAGE DATA SET FULL, OVERFLOWI
C Cancel message HMCTL IOSHM0803E HyperSwap Disabled
D Display message PROC HZS0003E CHECK(IBMUSS,USS_PARMLIB_MOUNTS):
R{text} Reply to message BPXH061E One or more file systems specifie
members are not mounted.
8923 MVS70 VTAM ISTEXC200 - DYN COMMANDS MAY BE ENTERED
2072 MVS70 *MASTER* ILR005E PLPA PAGE DATA SET FULL, OVERFLOWI
8913 MVSA0 VTAM ISTEXC200 - DYN COMMANDS MAY BE ENTERED
2071 MVSA0 *MASTER* ILR005E PLPA PAGE DATA SET FULL, OVERFLOWI
***** Bottom of Data *****
F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel
MA D 10/002

```



A Few Tabular Screen Shots...

```
Jobs Resources Devices Tools Filter View Options Help
DJCJOBS BBDJ1DEP 3S 0X 0W 3H 0 Records Row 1 of 4
Command ==> Scroll ==> CSR
Cmd JobName JobID JobStat DJCStat Successr* NHold Scht NCmp ACmp Nr Ab DR
-----
DJ1DEPB0 JOB28205 H-DJOPER 0H DJ1DEPB1 0 0 HOLD NOKP D R N
DJ1DEPB2 DJ1DEPB2
DJ1DEPB1 JOB28207 H-DJNET H 1 0 HOLD NOKP D R N
DJ1DEPB2 JOB28208 H-DJNET H 1 0 HOLD NOKP D R N
-----
Line Commands *****
AH Alter Hld Q Iv Job Info* P# Reprint Job*
AW Alter Wtr Q IXv Job Info-ext* Q Output Desc
Bv Browse Job* Jv Browse JCL* Rq Release*
C Cncl Job K MVS Cancel RS Restart Setup
CD Cncl Exec/Dump KD MVS Cancel/Dump RSC Restart Setup/CI
CO Cncl/P-Out Mv Msg Summary* RUN Force job to run
CP Cncl/P-Prt NC Cncl DJC RX Restart Exec
Cq Cncl Queue* NC0 Cncl DJC/P-Out S Data Set Status
CX Cncl Exec ND Decrement NHOLD Tv Browse Job/Patt*
D Display NH DJC Hold Wc Requeue Job{to c}
DUv Control Blks* NI Increment NHOLD Xn Extract Job/Patt*
En Extract Job* NR DJC Release
Hq Hold* Oc Requeue {to c}

* v = blank, B(rowse) or V(iew)
n = blank, D(asd), U(nix), 1 or 2(prt) # = blank, 1 or 2
q = blank, B(dt), H(oid), T(cp) or W(tr)

F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel
MA D 10/002
```

Pop-Ups Minimize The Need To Memorize Commands Or Return To The Entry Panel



- Primary Selection Criteria pop-up:

```

SCC
-----
Primary Selection
-----
Job Names . . . /AUTO*
Owner IDs . . . EDJX2
Origins . . .
Destinations . .
Job Classes . .
Sysout Classes .
Display Jobs . . YES (YES or NO)
Display STCs . . YES (YES or NO)
Display TSUs . . YES (YES or NO)
Display ATXs . . YES (YES or NO)

F1=Help      F12=Cancel
    
```

```

Row 1 of 311
Scroll ==> PAGE
Comp  Records  Pa
-----
0000      28
S522     446
S522     376
          0
          0
          0
          0
          0
          0
          0
          0
          0
    
```

- Additional Selection Criteria pop-ups differ by function:

```

SCC
-----
Additional Selection
-----
Status . . .
Queue . . .
Active System . .
Max Comp . .
Job Prty . . >7 ((<<|>>)nn)
Hold JOEs . . ((<<|>>)nn)
Output JOEs . . ((<<|>>)nn)
Records . . ((<<|>>)nn)

F1=Help      F12=Cancel
    
```

```

Row 1 of 320
Scroll ==> CSR
JP  Pos  WPos  MaxComp  Records  Pa
-----
15          0
9          0
9          0
9      11    0
9       1    0
9       2    0
9       3    0
9       4    0
    
```

Metafilters Perform Complex Filtering With Masking, Boolean AND/OR



- Metafilters support allows up to 16 filters to be established.

```

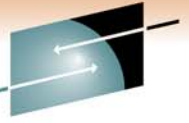
Jobs Resources Devices Tools Filter View Options Help
Metafilters
Help
FILTER STATUS (MIN) Row 1 of 2
Command ==> Scroll ==> PAGE
Cmd Column Title Op Value Bool
MAXCOMP MaxComp = AB* OR
MAXCOMP MaxComp = JCL*
***** Bottom of Data *****
  
```

- Example shows jobs that abended or failed w/JCL error.

```

Jobs Resources Devices Tools Filter View Options Help
STATUS 2,422S 0X 159W 0H 0T 9,394,049 Records Row 22 of 159
Command ==> Scroll ==> CSR
Cmd JobName JobID Status Process StepNum StepName JP MaxComp Records
DFS STC48582 W-OUTPUT OUTSERV 1 15 AB S422 68,572
CICSA STC48438 W-OUTPUT OUTSERV 5 15 AB S222 7,062
DFHAPPLY JOB48335 W-OUTPUT OUTSERV 1 2 AB SEC6 71,330
DFHSMPSU JOB48284 W-OUTPUT OUTSERV 12 2 JCLERR 358
DB8GMSTR STC48199 W-OUTPUT OUTSERV 0 15 JCLERR 15
EJES$SAL JOB48064 W-OUTPUT OUTSERV 2 2 JCLERR 122
RUNNING JOB48038 W-OUTPUT OUTSERV 1 2 AB S522 398,591
  
```

Various Filter Modes Improve Heuristics by Allowing Filtered Data Viewed in Context



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- TRUE mode displays only matches.
- FALSE mode display only non-matches.
- CTRUE (color TRUE) mode colorizes matches.
- CFALSE (color FALSE) mode colorizes non-matches.
- Example below is CTRUE mode for abends & JCL errors.

```

Jobs Resources Devices Tools Filter View Options Help
STATUS 2,426S 122X 2,272W 33H 4T 30,904,926 Records Row 1247 of 2431
Command ===> Scroll ===> CSR

```

Cmd	JobName	JobID	Status	Process	StepNum	StepName	JP	MaxComp	Records
DB8GMSTR	STC46654	W-OUTPUT	OUTSERV	0	15	JCLERR			15
DFS	STC46649	W-OUTPUT	OUTSERV	1	15	CC 0000			70
MSTRUPDT	JOB46617	W-OUTPUT	OUTSERV	1	4	CC 0000			84
RCVMAINT	JOB46602	W-OUTPUT	OUTSERV	12	1	CC 0008			138,989
GTFTRACE	JOB46595	W-OUTPUT	OUTSERV	1	4	AB S222			271,000
FINDLOOP	JOB46593	W-OUTPUT	OUTSERV	2	2	CC 0000			107
GTFTRACE	JOB46591	W-OUTPUT	OUTSERV	1	4	AB S222			322,704
FINDLOOP	JOB46590	W-OUTPUT	OUTSERV	2	2	CC 0000			107
GTFPHX	STC46588	W-OUTPUT	OUTSERV	0	15	JCLERR			24
FINDLOOP	JOB46587	W-OUTPUT	OUTSERV	2	2	CC 0000			107

Point-And-Shoot Pop-Up Column Help Trains Users On z/OS, JES and (E)JES



- Position cursor to any column, press F1.

Jobs Resources Devices Tools Filter View Options Help									
HOLD 620S 15J 0T 3,176,481 Records (0 Sched)									
Command ==>									
Cmd	JobName	JobID	Status	MaxComp	C	Pri	Dest	ODisp	Records
	DBONDHPF	J0063291	QUEUED	CC 0000	H				2,703
			QUEUED		H				105
			QUEUED		H				12
	DBONDHPF	J0063283	QUEUED	CC 0000	H				2,674
			QUEUED		H	144	LOCAL	HOLD	105
			QUEUED		H	144	LOCAL	HOLD	12
	DBONDHPF	J0063277	QUEUED	CC 0000	H	128	LOCAL	HOLD	2,696
			QUEUED		H	144	LOCAL	HOLD	105

Priority (0-255) of the output. Higher numbers imply higher priority.

- Position cursor to any unprotected field, press F1.

Jobs Resources Devices Tools Filter View Options Help									
HOLD 620S 15J 0T 3,176,481 Records (0 Sched)									
Command ==>									
Cmd	JobName	JobID	Status	MaxComp	C	Pri	Dest	ODisp	Records
	DBONDHPF	J0063291	QUEUED	CC 0000	H	128	LOCAL	HOLD	2,703
			QUEUED		H			OLD	105
			QUEUED		H			OLD	12
	DBONDHPF	J0063283	QUEUED	CC 0000	H			OLD	2,674
			QUEUED		H			OLD	105
			QUEUED		H	144	LOCAL	HOLD	12
	DBONDHPF	J0063277	QUEUED	CC 0000	H	128	LOCAL	HOLD	2,696
			QUEUED		H	144	LOCAL	HOLD	105
			QUEUED		H	144	LOCAL	HOLD	12
	PORTMAP	S0062899	QUEUED	AB S422	S	144	LOCAL	HOLD	1
	C4CONDOR	S0062236	QUEUED	AB S222	H	112	LOCAL	HOLD	13,585

A number from 0 to 255.

Point-And-Shoot Tri-Modal Sorting Is Both Intuitive and Easy to Use



- Double-click/point-and-shoot column header for ascending column sort.
 - Arrows indicate sort direction.
- Double-click/point-and-shoot a second time for descending column sort.
- Double-click/point-and-shoot a third time to return to original sort order.

```
0 Sched) Row 1 of 22
Scroll ==> PAGE
ODisp Records Pages GrpName
↑↑↑↑↑↑↑↑↑↑
HOLD 0 0 2
HOLD 1 0 2
HOLD 12 0 1
HOLD 12 0 1
HOLD 12 0 1
HOLD 105 0 2
HOLD 105 0 2
HOLD 105 0 2
```

```
0 Sched) Row 1 of 22
Scroll ==> PAGE
ODisp Records Pages GrpName
↓↓↓↓↓↓↓↓↓↓
HOLD 555,224 0 2
HOLD 555,167 0 2
HOLD 499,965 0 3
HOLD 499,704 0 3
HOLD 498,244 0 3
HOLD 497,682 0 3
HOLD 45,929 0 1
HOLD 13,585 0 3
```

```
0 Sched) Row 1 of 22
Scroll ==> PAGE
ODisp Records Pages GrpName
HOLD 2,703 0 3
HOLD 105 0 2
HOLD 12 0 1
HOLD 2,674 0 3
HOLD 105 0 2
HOLD 12 0 1
HOLD 2,696 0 3
HOLD 105 0 2
```

Intelligent Column Formatting Shifts The Most Important Information Into View



- What happens when you shrink output columns more and more? And, more???

```
9W 0H 57T 15,300,818 Records
```

Records	QDate	QTime	Own
1,234,154	2009/05/20	04:53:57.56	EJE
1,180,091	2009/05/06	05:18:05.07	EJE
832,174	2009/05/08	04:39:18.36	PHO
694,448	2009/05/08	04:39:18.36	EJE
556,929	2009/05/19	11:54:54.05	PHO

```
9W 0H 57T 15,300,818 Records
```

Records	QDate	QTime	Owner
1,234T	09/05/20	04:53:57	EJES
1,180T	09/05/06	05:18:05	EJES
832,174	09/05/08	04:39:18	PHOENIX
694,448	09/05/08	04:39:18	EJES
556,929	09/05/19	11:54:54	PHOENIX

```
9W 0H 57T 15,300,818 Records
```

Records	QDate	QTime	Owner	Pag
1,234T	9/05/20	04:53:5	EJES	
1,180T	9/05/06	05:18:0	EJES	
832,174	9/05/08	04:39:1	PHOENIX	
694,448	9/05/08	04:39:1	EJES	
556,929	9/05/19	11:54:5	PHOENIX	

```
9W 0H 57T 15,300,818 Records
```

Recor	QDate	QTime	Owner	Pages
1M	05/20	04:53	EJES	0
1M	05/06	05:18	EJES	0
832T	05/08	04:39	PHOENIX	0
694T	05/08	04:39	EJES	0
557T	05/19	11:54	PHOENIX	0

```
zIIP 0 Row 1 of 297
Scroll ==> CSR
```

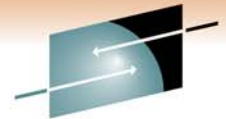
Real	CPU-Time	Elapsed	ASID	Pos
1,900KB	00:01.55	00:16:50.10	00BF	L0
1,884KB	00:01.61	00:16:57.63	0049	L0
1,872KB	00:01.69	00:16:57.97	00C0	L0
1,896KB	00:01.57	00:17:08.65	00C2	L0
2,292KB	00:03.99	02:21:18.26	00BE	NS

```
zIIP 0 Row 1 of 297
Scroll ==> CSR
```

Real	CPU-Tim	Elapsed	ASID	Pos	DP	Pa
1,904KB	00:02.1	21:40.06	00BF	L0	FF	
1,888KB	00:02.2	21:47.60	0049	L0	FF	
1,896KB	00:02.3	21:47.94	00C0	L0	FF	
1,908KB	00:02.1	21:58.62	00C2	L0	FF	
2,292KB	00:04.0	02:26:08	00BE	NS	F6	

```
6 zIIP 0 Row 1 of 297
Scroll ==> CSR
```

Real	CPU-T	Elapsed	ASID	Pos	DP	Paging	E
2MB	00:02	26:39.4	00BF	L0	FF		
2MB	00:02	26:47.0	0049	L0	FF		
2MB	00:02	26:47.3	00C0	L0	FF		
2MB	00:02	26:58.0	00C2	L0	FF		
2MB	00:04	02:31:0	00BE	NS	F6	.00	



Advanced Horizontal Scrolling Features

- Establish your own horizontal scroll point.
 - Denoted by slash in column underline.
 - Fields left of scroll point stay fixed.
- LCOLUMN command horizontally scrolls any column into view.
- “SNAP” to scroll point option ensures no column is ever “chopped” at the scroll point.

```
Jobs Resources Devices Tools Filter View Options Help
OUTPUT 627S 145J 57T 12,123,553 Records (0 Sched) Row 126 of 225
Command ==> right 1_ Scroll ==> CSR
Cmd JobName JobID Status MaxComp C Pri Dest ODisp Records
EJESVJ2 S0061951 QUEUED AB S222 S 96 LOCAL WRITE 58,504
C3CONDOR S0061950 QUEUED AB S222 D 96 LOCAL WRITE 207,902
C3CONDOR S0061928 QUEUED AB S222 S 144 LOCAL WRITE 1,371
EJWSB450 S0061924 QUEUED AB SA03 S 144 LOCAL WRITE 1,151
```

```
Jobs Resources Devices Tools Filter View Options Help
OUTPUT 627S 145J 57T 12,123,553 Records (0 Sched) Row 126 of 225
Command ==> _ Scroll ==> CSR
Cmd JobName JobID MaxComp C Pri Dest ODisp Records Pages
EJESVJ2 S0061951 AB S222 S 96 LOCAL WRITE 58,504
C3CONDOR S0061950 AB S222 D 96 LOCAL WRITE 207,902
C3CONDOR S0061928 AB S222 D 96 LOCAL WRITE 1,371
EJWSB450 S0061924 AB SA03 S 144 LOCAL WRITE 1,151
```

Column Arrangement and Column Hiding Give Users Ultimate Flexibility



- Any column can be first.
 - Especially useful for **SELECT** primary command, whose mask operates on the first column of the display.
- Columns can be hidden (set to zero width).
 - Set width to zero during column arrangement.
 - Use **HIDE** command to quickly hide multiple named columns.
 - Use **SHOW** command to quickly show multiple named columns and hide the others.

```
Jobs Resources Devices Tools Filter View Options Help
-
O
C
C
-
Filter Help
ARRANGE OUTPUT (MIN) Row 1 of 37
Command ==> Scroll ==> CSR
Cmd Column Title Width
-----
JNAME JobName 8
JID JobID 8
/ / 0
STATUS Status 7
MAXCOMP MaxComp 8
Row 1 of 536
ll ==> CSR
sp Records
----->
TE 192
TE 36
TE 28
TE 92
TE 197
TE 24
TE 1
```

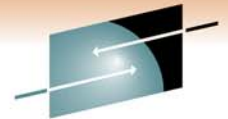
SELECT Command Works Like ISPF Member Selection Lists, But Better!



- Mask applied to first column displayed on the screen, which can be customized, of course.
- A different default line command can be established for each tabular display.
- Optional line command default override on SELECT.
- Row number or range of row numbers may be specified instead of a mask. Row admin column is helpful here.
- SELECT command itself is optional if row number used.
- Examples:

```
S ABC*      (default action for objects starting with ABC)
S * C      (issue C line command against all displayed rows)
S 5-20 W   (issue W line command against rows 5 through 20)
9          (default action for row 9)
```

SELECT Command Example With Row Number Specified (Default Action = B)



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```

Jobs Resources Devices Tools Filter View Options Help
DSSTAT EJES$PAP J0161841 4,516 Records Row 1 of 7
Command ==> 7_ Scroll ==> CSR
Cmd Row DDName StepName ProcName Que* C Pri Cpy Hld Destination Records
-----
1 JESMSG LG HLD H 2 1 ANYLOCAL 11
2 JESJCL HLD H 2 1 ANYLOCAL 152
3 JESYSMSG HLD H 2 1 ANYLOCAL 158
4 SMP OUT APPLY SMP HLD H 2 1 ANYLOCAL 94
5 SMP RPT APPLY SMP HLD H 2 1 ANYLOCAL 165
6 SYS PRINT APPLY SMP HLD H 2 1 ANYLOCAL 3,855
7 SMP HRPT APPLY SMP HLD H 2 1 ANYLOCAL 81
***** Bottom of Data *****
  
```

```

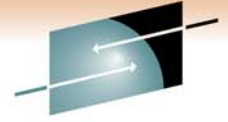
Jobs Resources Devices Tools Filter View Options Help
EJES$PAP J0161841 <SMP .APPLY .SMPHRPT > Line 1 of 81
Command ==> Scroll ==> CSR
Current Find Text: Dataset 1 of 1
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->
1PAGE 0001 - NOW SET TO TARGET ZONE EJESTZN DATE 02/01/11 TIME 13:39:53 SMP/

BYPASSED HOLD REASON REPORT FOR APPLY PROCESSING

TYPE REASON ID FMID SYSMOD ++HOLD DATA
-----
SYSTEM ACTION QEJ4800 PEJ0697 ++HOLD(PEJ0697) SYS REASON(ACTION) FMID(QE

IBM APAR 0A34642 completely solves the
0A33040.

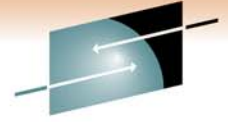
Phoenix Software International made a c
  
```



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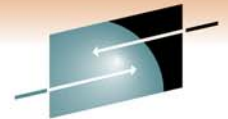
Fully Point-And-Shoot Enabled.

- Recommend couple with 3270 mouse function.
- Each tabular display has a “default” line command to be issued when <Enter> pressed with cursor in the **Cmd** column. Delivered default is that which made sense to us.
- Customize where cursor should be placed after various actions. Optimal behaviors differ between users that want point-and-shoot and those that don't.
- Of course, the ultimate point-and-shoot functionality is obtained using the workstation component.



Browsers

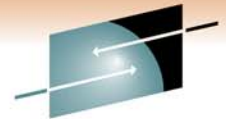
- For all users:
 - SPOOL Data
 - Job Message Summary
 - Job Information
 - Job JCL
 - User Log (MCS Extended Console)
- For operators & system programmers:
 - SYSLOG
 - OPERLOG
 - Health Check Messages
- For problem diagnosis:
 - SPOOL Control Block Dump
 - SPOOL Data Set Block-by-Block Dump
 - SPOOL Block Dump



Native Browsers Provide Unique Features

- Maintain understanding of data set boundaries and total size.
 - Navigate by DD name or absolute or relative data set number.
 - BOX mode viewing can limit scroll and find to “current” data set only.
- Find match highlighting even in BROWSE-like function.
- RFINDP—repeat find at page level instead of hit-by-hit.
- BOTTOM scroll mode always shows most recent data.

```
Jobs Resources Devices Tools Filter View Options Help
ALLOCZFS J0083110      < .JES2 .JESMSG LG> Line 1 of 129
Command ==>           Scroll ==> CSR
Current Find Text: ALLOC Dataset 1 of 7
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->
1      J E S 2  J O B  L O G  --  S Y S T E M  S A O  --  N O D
0
09.36.36 J0083110 ---- THURSDAY, 23 DEC 2010 ----
09.36.36 J0083110 IRR010I  USERID EDJXADM  IS ASSIGNED TO THIS JOB.
09.36.36 J0083110 ICH70001I EDJXADM  LAST ACCESS AT 09:36:11 ON THURSDAY, DECE
09.36.36 J0083110 $HASP373 ALLOC ZFS STARTED - WLM INIT - SRVCLASS BATCH -
09.36.42 J0083110 $HASP395 ALLOC ZFS ENDED
0----- JES2 JOB STATISTICS -----
- 23 DEC 2010 JOB EXECUTION DATE
-      20 CARDS READ
-     129 SYSOUT PRINT RECORDS
-       0 SYSOUT PUNCH RECORDS
-       9 SYSOUT SPOOL KBYTES
-      0.09 MINUTES EXECUTION TIME
```

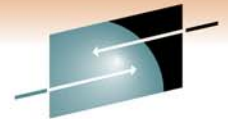


Toggle BOX Mode Viewing At Any Time

```
Jobs Resources Devices Tools Filter View Options Help
ALLOCZFS J0083110 < .DEFINE .SYSPRINT> Line 112 of 129
Command ==> box on Scroll ==> CSR
Current Find Text: ALLOC Dataset 6 of 7
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->
0IDC0512I NAME GENERATED-(D) HQOMVS.MVS60.Z112.ETC.ZFS.DATA
IDC0181I STORAGECLASS USED IS SYSHFS
IDC0181I MANAGEMENTCLASS USED IS NOMIG
IDC0181I DATACLASS USED IS DEFAULT
0IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
0
0IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0
IOEZ00004I Formatting to 8K block number 4500 for primary extent of HQOMVS.MVS6
IOEZ00005I Primary extent loaded successfully for HQOMVS.MVS60.Z112.ETC.ZFS.
IOEZ00535I *** Using initialempty value of 1.
```

```
Jobs Resources Devices Tools Filter View Options Help
ALLOCZFS J0083110 < .DEFINE .SYSPRINT> Line 8 of 14
Command ==> Scroll ==> CSR
Current Find Text: ALLOC Dataset 6 of 7
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->
0IDC0512I NAME GENERATED-(D) HQOMVS.MVS60.Z112.ETC.ZFS.DATA
IDC0181I STORAGECLASS USED IS SYSHFS
IDC0181I MANAGEMENTCLASS USED IS NOMIG
IDC0181I DATACLASS USED IS DEFAULT
0IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
0
0IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0
***** Bottom of Dataset *****
```

RFindp Reduces Keystrokes When There Are Many Duplicate Hits On A Page

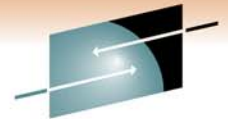


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```
Jobs Resources Devices Tools Filter View Options Help
ALLOCZFS J0083110 < .JES2 .JESMSG LG> Line 1 of 129
Command ==> rfindp (aka F17) Scroll ==> CSR
Current Find Text: J0083 Dataset 1 of 7
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->
1 J E S 2 J O B L O G -- S Y S T E M S A 0 -- N O D
0
09.36.36 J0083110 ---- THURSDAY, 23 DEC 2010 ----
09.36.36 J0083110 IRR010I USERID EDJXADM IS ASSIGNED TO THIS JOB.
09.36.36 J0083110 ICH70001I EDJXADM LAST ACCESS AT 09:36:11 ON THURSDAY, DECE
09.36.36 J0083110 $HASP373 ALLOCZFS STARTED - WLM INIT - SRVCLASS BATCH -
09.36.42 J0083110 $HASP395 ALLOCZFS ENDED
0----- JES2 JOB STATISTICS -----
- 23 DEC 2010 JOB EXECUTION DATE
- 20 CARDS READ
- 129 SYSOUT PRINT RECORDS
```

```
Jobs Resources Devices Tools Filter View Options Help
ALLOCZFS J0083110 < .JES2 .JESMSG LG> Line 25 of 129
Command ==> Scroll ==> CSR
Current Find Text: J0083 Dataset 2 of 7
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->
870 HQ0MVS.MVS60.Z112.ETC.ZFS.
09.36.38 J0083110 IOEZ00048I Detaching aggregate HQ0MVS.MVS60.Z112.ETC.ZFS
09.36.38 J0083110 IOEZ00048I Detaching aggregate HQ0MVS.MVS60.Z112.ETC.ZFS
09.36.41 J0083110 -ALLOCZFS CREATE 00 9589 498 .01 .0
09.36.41 J0083110 IEF404I ALLOCZFS - ENDED - TIME=09.36.41
09.36.41 J0083110 -ALLOCZFS ENDED. NAME-Compatibility Mode TOTAL CPU TIME=
1 //ALLOCZFS JOB 1,'Compatibility Mode',
// CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=&SYSUID
/*JOBPARM S=SA0
IEFC653I SUBSTITUTION JCL - 1,'Compatibility Mode',CLASS=A,MSGCLASS=H,
2 //DEFINE EXEC PGM=IDCAMS,REGION=64M
```

OPERLOG Browser Provides Robust Message Filtering on Live Log Data



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```

Jobs Resources Devices Tools Filter View Options Help
-----
Additional Selection
0
C System Name . . . _____
C Job Name . . . _____
<- Job ID . . . _____
1 Console . . . _____
  Message ID . . . ich408i
  Message Text . . . _____
1 Routing Codes . . . ALL
1 Descriptor Codes . . . ALL
1 Low Time-Date . . . _____
1 High Time-Date . . . _____
1
1 F1=Help F12=Cancel
1
2011/02/01
Scroll ==> CSR
9----+----10----+>
0, IN PROCESS 169
PLETION CODE 0033
ICA1 OPENED BY CI
FOR APPLID CICA1
CICA1
ED.  JOBNAME=CICS
n Dump Data set D
N OF CICS IS COMP
0, IN PROCESS 337
  
```

```

Jobs Resources Devices Tools Filter View Options Help
-----
OPERLOG PHXHQ
Command ==>
Current Find Text:
<--3----+----4----+----5----+----6----+----7----+----8----+----9----+----10----+>
06:20:48.73 CICSA 00000281 ICH408I USER(IBMUSER ) GROUP(SYS1 ) NAME(...
          940 00000281 LOGON/JOB INITIATION - REVOKED USER ACCESS ATT
06:20:48.76 CICSA 00000281 ICH408I USER(ADCD ) GROUP( ) NAME(...
          943 00000281 LOGON/JOB INITIATION - NOT AUTHORIZED TO CONSO
10:54:41.74 00000281 ICH408I USER(DROURKE ) GROUP(DEV ) NAME(ROUR
          300 00000281 LOGON/JOB INITIATION - INVALID PASSWORD ENTERE
15:22:32.71 JES3 00000281 ICH408I JOB(JES3 ) STEP(JES3 ) MVS.VARY.HA
          633 00000281 INSUFFICIENT ACCESS AUTHORITY
          633 00000281 FROM MVS.** (G)
          633 00000281 ACCESS INTENT(CONTROL) ACCESS ALLOWED(NONE
06:00:26.36 CICSA 00000281 ICH408I USER(IBMUSER ) GROUP(SYS1 ) NAME(...
  
```

OPERLOG Browser Can Display Using Original Console Presentation Attributes



```

Jobs Resources Devices Tools Filter View Options Help
OPERLOG PHXHQ
Command ==>
Current Find Text: UNDUB
2011/02/01
Scroll ==> CSR
<--3--++--4--++--5--++--6--++--7--++--8--++--9--++--10--++>
13:05:35.81 CICSA 00000290 BXP018I THREAD 0D37020000000000, IN PROCESS 169
          433 00000290 WITHOUT BEING UNDUBBED WITH COMPLETION CODE 0033
          433 00000290 , AND REASON CODE 00000000.
13:05:35.83 INTERNAL 00000290 IST804I CLOSE IN PROGRESS FOR CICA1 OPENED BY CI
13:05:35.85 INTERNAL 00000090 IST400I TERMINATION IN PROGRESS FOR APPLID CICA1
13:05:35.87 INTERNAL 00000090 IST805I VTAM CLOSE COMPLETE FOR CICA1
13:05:36.29          00000281 IEA989I SLIP TRAP ID=X13E MATCHED. JOBNAME=CICS
13:05:36.30 CICSA 00000090 +DFHDU0303I CICA1 Transaction Dump Data set D
13:05:36.31 CICSA 00000090 +DFHKE1799 CICA1 TERMINATION OF CICS IS COMP
13:05:36.32 CICSA 00000290 BXP018I THREAD 0D36690000000000, IN PROCESS 337
          440 00000290 WITHOUT BEING UNDUBBED WITH COMPLETION CODE 4022
          440 00000290 , AND REASON CODE 00000000.
13:05:36.96 CICSA 00000000 IEF450I CICSA CICSA - ABEND=S222 U0000 REASON=00
          441 00000000 TIME=13.05.36
13:05:37.34 CICSA 00000090 IEF352I ADDRESS SPACE UNAVAILABLE
13:05:37.51          00000281 IEA989I SLIP TRAP ID=X33E MATCHED. JOBNAME=*UNA
13:05:39.77 JES3 00000281 IAT7450 JOB CICSA (J0161452) PURGED
13:05:48.55 EDJXADM 00000290 EJES510 USER-EDJXADM-/I SMF
13:05:48.58 EDJXADM 00000290 I SMF
13:05:48.72          00000090 *IEE391A SMF ENTER DUMP FOR DATA SET ON VOLSER MV
          082 00000090 DSN=SYS2.MVS60.MAN1
13:05:48.73          00000090 IEE388I SMF NOW RECORDING ON VOLSER MVS60B, DSN=
13:05:48.74          00000090 IEE388I 13.05.48
13:06:06.94          00000090 *HZS0003E CHECK(IBMxcf,XCF_CDS_SPOF): 085
          085 00000090 IXCH0242E One or more couple data sets have a si
F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel
MA D 08/047
  
```


Message Summary Browser Simplifies Job Message and Return Code Analysis



- Like other browsers, updated by pressing <Enter>.
 - New information added with each update, if needed.
- Installation-defined message set and behavior. (Default exit distributed with the product rarely changed.)

```
Jobs Resources Devices Tools Filter View Options Help
RCVMAINT J0513780      Start: 2009/05/23  End: 2009/05/23      Line 1 of 16
Command ==>          Scroll ==> CSR
Current Find Text:
-----1-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7----->
00:01:00 ---- IAT6853 THE CURRENT DATE IS SATURDAY,  23 MAY 2009 ----
00:01:13  IAT2000 JOB RCVMAINT (J0513780) SELECTED MVS60      SRVCLASS=MTTW
00:01:13  IEF403I RCVMAINT - STARTED
01:13:26  IEF404I RCVMAINT - ENDED
IEF142I RCVMAINT RCVORDER RMVS - STEP WAS EXECUTED - COND CODE 0000
IEF142I RCVMAINT RCVORDER RSMGR - STEP WAS EXECUTED - COND CODE 0004
IEF142I RCVMAINT RCVORDER RJVA500 - STEP WAS EXECUTED - COND CODE 0004
IEF142I RCVMAINT RCVORDER RIXM190 - STEP WAS EXECUTED - COND CODE 0004
IEF142I RCVMAINT RCVORDER RWAS610 - STEP WAS EXECUTED - COND CODE 0004
IEF142I RCVMAINT RCVORDER RWPS601 - STEP WAS EXECUTED - COND CODE 0004
IEF142I RCVMAINT SMPE AMVS - STEP WAS EXECUTED - COND CODE 0008
IEF272I RCVMAINT SMPE ASMGR - STEP WAS NOT EXECUTED.
IEF272I RCVMAINT SMPE AJVA500 - STEP WAS NOT EXECUTED.
IEF272I RCVMAINT SMPE AIXM190 - STEP WAS NOT EXECUTED.
IEF272I RCVMAINT SMPE AWAS610 - STEP WAS NOT EXECUTED.
IEF272I RCVMAINT SMPE AWPS601 - STEP WAS NOT EXECUTED.
***** Bottom of Data *****
```

Spool Control Block Browsers Aid In Debugging JES, User Exits, Products



```

Jobs Resources Devices Tools Filter View Options Help
EJESCAS S0063613 Spool Control Blocks Line 1 of 272
Command ==> Scroll ==> CSR
Current Find Text:
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+-----8
*****
* J C T *
*****
SPool ADDRESS: 03.124F06
FIXED SECTION:
0000 0068 D1C3E340 C5D1C5E2 C3C1E240 0000F87D *JCT EJESCAS ..8'*
0010 0078 C46CC7D6 00000000 05780080 00000000 *D%GO.....i.0...*
0020 0088 00000000 03124F06 00000000 03124F04 *.....|.....|.*
0030 0098 00000000 03124F03 00000088 FFFFFFFF *.....|.....h...*
    
```

```

Jobs Resources Devices Tools Filter View Options Help
EJESCAS S0063613 Spool Control Blocks Line 3 of 67
Command ==> Scroll ==> CSR
Current Find Text:
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+-----8
*****
* S P O O L B L O C K *
*****
SPool ADDRESS: 03.124F0A
0000 0000 C8C4C240 C5D1C5E2 C3C1E240 0000F87D *HDB EJESCAS ..8'*
0010 0010 C46CC7D6 00000004 03124F0B 00000000 *D%GO.....|.....*
0020 0020 060C0D03 0000124F 0411C011 4040E2E3 *.....|..{. ST*
0030 0030 D4E340D5 D64B40D4 C5E2E2C1 C7C553C0 *MT NO. MESSAGEë{*
0040 0040 53404040 40404040 4040F240 C9C5C6C3 *ë 2 IEFC*
0050 0050 F0F0F1C9 40D7D9D6 C3C5C4E4 D9C540C5 *001I PROCEDURE E*
0060 0060 D1C5E2C3 C1E240E6 C1E240C5 E7D7C1D5 *JESCAS WAS EXPAN*
    
```

Substitute ISPF BROWSE Or ISPF VIEW Whenever Useful Or Convenient To Do So



```

Jobs Resources Devices Tools Filter View Options Help
EDGUX100 J0083082 < .JES2 .JESMSG LG> Line 1 of 5787
Command ==> view_ Scroll ==> CSR
Current Find Text: EDG Dataset 1 of 9
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->
1 J E S 2 J O B L O G -- S Y S T E M S A O -- N O D
0
08.32.25 J0083082 ---- THURSDAY, 23 DEC 2010 ----
08.32.25 J0083082 IRR010I USERID EDJXADM IS ASSIGNED TO THIS JOB.
08.32.25 J0083082 ICH70001I EDJXADM LAST ACCESS AT 08:29:31 ON THURSDAY, DECE
08.32.25 J0083082 $HASP373 EDGUX100 STARTED - WLM INIT - SRVCLASS BATCH -
08.33.29 J0083082 $HASP395 EDGUX100 ENDED
0----- JES2 JOB STATISTICS -----
- 23 DEC 2010 JOB EXECUTION DATE
- 32 CARDS READ
- 5,776 SYSOUT PRINT RECORDS

```

```

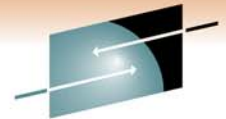
EDGUX100 J0083082 ----- Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000001 1 J E S 2 J O B L O G -- S Y S T E M S A O --
000002 0
000003 08.32.25 J0083082 ---- THURSDAY, 23 DEC 2010 ----
000004 08.32.25 J0083082 IRR010I USERID EDJXADM IS ASSIGNED TO THIS JOB.
000005 08.32.25 J0083082 ICH70001I EDJXADM LAST ACCESS AT 08:29:31 ON THURSD
000006 08.32.25 J0083082 $HASP373 EDGUX100 STARTED - WLM INIT - SRVCLASS BAT
000007 08.33.29 J0083082 $HASP395 EDGUX100 ENDED
000008 0----- JES2 JOB STATISTICS -----
000009 - 23 DEC 2010 JOB EXECUTION DATE
000010 - 32 CARDS READ
000011 - 5,776 SYSOUT PRINT RECORDS
000012 - 0 SYSOUT PUNCH RECORDS
000013 - 631 SYSOUT SPOOL KBYTES
000014 - 1.06 MINUTES EXECUTION TIME

```

Extract ANY Scrollable Information to Classic DASD, Sysout, or z/OS UNIX



- Extract tabular display contents as well as report objects.
- Optionally apply patterns (as shown before with Browser).
- Attributes (RECFM, LRECL, BLKSIZE) adjusted as necessary for target data set, including fully-reversible carriage control translation between ASA and machine.
- Create data sets or files if they don't exist.
 - Data set attributes can be derived from extracted object(s).
 - Fully supports LARGE and extended format data sets.
 - Fully supports Extended Address Volumes (EAV).
- Output descriptors can be created for extract to SYSOUT.
- Optional header pages can be inserted where appropriate.
- Optionally copy job name and job ID for JES header page.



Specification Panel for Classic Data Sets

```
Jobs Resources Devices Tools Filter View Options Help
RCVMAINT J0160773          Extract Parameters          DASD
Command ==>

For Extract to DASD Dataset:
  Dataset name  ==> rcvmaint.j0160773.list_
  Disposition  ==> OLD          (OLD, MOD, NEW or SHR)
  Page eject   ==> NO          (YES or NO to force eject for each dataset)

For New DASD Dataset to be Created:
  Management class ==>          (Blank for default management class)
  Storage class   ==>          (Blank for default storage class)
  Volume serial   ==>
  Unit name       ==>          (Blank for default unit)
  Data class      ==>          (Blank for default data class)
  Space units     ==>          (REC, BLK, TRK, CYL, B, KB, MB, or blank)
  Primary qty     ==>          (In above units)
  Secondary qty   ==>          (In above units)
  Record format   ==> *          ('*' to derive from data)
  Record length   ==>
  Block size      ==>
  Expiration      ==>          (YYYY/MM/DD, YYYY.DDD, or DDDD for RETPD)
  Data set type   ==>          (LIB, PDS, BASIC, LARGE, EXTP, EXTR, blank)
  Extended attr   ==> OPT        (NO, OPT or blank)

Use ENTER to perform extract; Use END command to cancel extract.

F1=Help      F3=Exit      F10=Actions  F12=Cancel
MA D
```

Sysout Output Descriptor Specifications (Scrollable To Show Dozens of Fields)

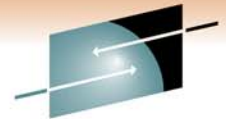


```
Jobs Resources Devices Tools Filter View Options Help
FTP2TSM J0161881 Extract Parameters PRINT
Command ==> _ More: +
CLASS ==> A WRITER ==>
PRMODE ==> PRTY ==> (0-255 or blank)
FORMDEF ==> OUTBIN ==> (1-65535 or blank)
PAGEDEF ==> CHARS ==> ==> ==>
FCB ==> FLASH ==> CNT ==> (0-255 or blank)
FORMS ==> MODIFY ==> TRC ==> (0-3 or blank)
UCS ==> DEST ==> IP:hp8100.phx

NAME ==> Ed Jaffe
TITLE ==>
ROOM ==>
DEPT ==>
BUILDING ==> Headquarters
ADDRESS ==> Phoenix Software International, Inc.
ADDRESS ==> 831 Parkview Drive North
ADDRESS ==> El Segundo, CA 90245 USA
ADDRESS ==>

BURST ==> (YES, NO, or blank) NOTIFY ==>
DPAGELBL ==> (YES, NO, or blank) NOTIFY ==>
SYSAREA ==> (YES, NO, or blank) NOTIFY ==>
TRC ==> (YES, NO, or blank) NOTIFY ==>
PIMSG ==> (YES, NO, or blank) LIM ==> (0-999 or blank)

CKPTLINE ==> (0-32767 or blank) CKPTPAGE ==> (1-32767 or blank)
CKPTSEC ==> (1-32767 or blank) COMPACT ==>
F1=Help F3=Exit F10=Actions F12=Cancel
```



Extract to z/OS UNIX File System

```
Jobs Resources Devices Tools Filter View Options Help
RCVMANT J0160773 Extract Parameters Z/OS UNIX
Command ==> _

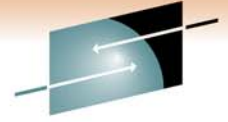
For Extract to z/OS UNIX File System:
  Path name ==> /u/edjx2

  Path option ==> NEW (NEW, REPLACE, APPEND)
  File data ==> TEXT (TEXT, BINARY, or blank)
  Page eject ==> NO (YES or NO to force eject for each dataset)
  Record format ==> ('*' to derive from data)
  Record length ==>
  Owner perms ==> RW (R, RW, or blank)
```

```
Jobs Resources Devices Tools Filter View Options Help
PATHSEL /u/edjx2 Row 1 of 15
Command ==> Scroll ==> CSR

Cmd Type Permission Owner Group FileName
-----/-----
Dir drwx----- EDJX2 DEV .
Dir dr-xr-xr-x SYSOPER TTY ..
File -rw----- EDJX2 DEV .sh_history
Dir drwx----- EDJX2 DEV .ssh
File -rw-r--r-- EDJX2 DEV edjx2
Dir drwxrwxrwx EDJX2 DEV ejesjava

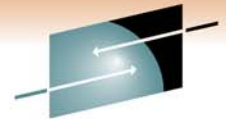
Line Commands
L Select file or directory v
N Prompt for new file or directory v_ejes
S Select file or directory sk
sk_ejes
```



Application Programming Interface

- Supports procedural languages:
 - HLASM
 - C/C++
 - PL/I, COBOL, etc.
- Both 31-bit and 64-bit callers
- Supports REXX language:
 - The REXX API was written in HLASM using the 31-bit procedural language API.
- Supports Java language:
 - Both 31-bit and 64-bit JVMs.
 - The JNI layers from the Java API to (E)JES were written in C++ using the 31-bit and 64-bit procedural language APIs.

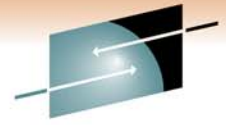
Sample REXX to List Which of a User's Jobs Contain A Specified Search String



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```
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          SYS2.E480.SEJEEEXEC(SRCHJOBS) - 01.00          Columns 00001 00072
Command ==>          Scroll ==> CSR
***** ***** Top of Data *****
000100 /* REXX to search a user's jobs */
000200 /* */
000300 /* Input parms are userid and */
000400 /* the string to search. */
000500 SrchJobs:
000600 parse arg userid string
000700 if LENGTH(userid)<=1 then userid=USERID()
000800 if LENGTH(string)=0 then do;say "String not provided";exit 99;end
000900 jobix=0
001000 delstack
001100 queue "SRESET;OWNER" userid";ST 0JOB"
001200 queue "SHOWCOLS JOBNAME JOBID;UPDATE"
001300 queue ""
001400 rc = ejesrex("execapi")
001500 if rc>0 then do i=1 to EJES_Msg.0;say EJES_Msg.i;end
001600 else do
001700 say "Searching" EJES_Lines "jobs owned by" userid "..."
001800 address ejes "execapi 0 'SELECT * B' (ignerror"
001900 if rc>0 then do i=1 to EJES_Msg.0;say EJES_Msg.i;end
002000 else,
002100 do while EJES_Funtype = "BROWSER"
002200 queue "FIND" string
002300 queue ""
002400 address ejes "execapi"
002500 if rc>0 then delstack
002600 else do
002700 jobix = jobix + 1
002800 jobname.jobix = EJES_JobName
002900 jobid.jobix = EJES_JobId
003000 end
003100 address ejes "execapi 0 END (ignerror"
003200 end
003300 end
003400 rc = ejesrex('termapi')
003500 if jobix=0 then say "String not found in jobs owned by" userid
003600 else do
003700 say "String found in" jobix "jobs owned by" userid ":"
003800 say "Jobname JobId"
003900 say "-----"
004000 do i=1 to jobix
004100 say LEFT(jobname.i,8," ") LEFT(jobid.i,8," ")
004200 end
004300 end
```

TSO/E Result of Searching Jobs Owned by EDJXADM For String 'MCAT'



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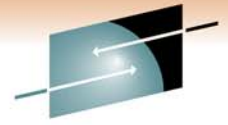
```
READY
srchjobs edjxadm mcat
Searching 304 jobs owned by edjxadm ...
String found in 47 jobs owned by edjxadm:
Jobname      JobId
-----
SMPPAPP      J0136530
SMPPAPP      J0140306
CATCONN1     J0141625
DELOCAT      J0141626
DELOCAT      J0141627
DELOCAT      J0141628
DELOCAT      J0141629
CATDIAG1     J0141630
VVDDIAG1     J0141631
LISTCAT1     J0141632
CATDEFI1     J0141634
CATCOPY1     J0141635
CATCOPY2     J0141638
CATCONN2     J0141646
CATCONN2     J0141647
CATCOPY3     J0141648
COMPCATS     J0141649
COMPCATS     J0141656
DEFALIAS     J0141657
DEFALIAS     J0141658
COMPCATS     J0141660
DEFNVSAM     J0141992
DEFNVSAM     J0141993
CATCONN5     J0142253
***
```

SYSREXX Result of Searching Jobs Owned by EDJXADM For String 'MCAT'



```
Jobs Resources Devices Tools Filter View Options Help
OPERLOG PHXHQ
Command ==>
Current Find Text:
2011/02/02
Scroll ==> CSR
<--3---+---4---+---5---+---6---+---7---+---8---+---9---+---10---+>
10:16:28.30 EDJXADM 00000090 AXR0500I AXREXX OUTPUT DISPLAY 305
305 00000090 EXECNAME=SRCHJOBS REQTOKEN=00004000000000000000C7460
305 00000090 Searching 304 jobs owned by EDJXADM ...
305 00000090 String found in 47 jobs owned by EDJXADM:
305 00000090 Jobname JobId
305 00000090 -----
305 00000090 SMPPAPP J0136530
305 00000090 SMPPAPP J0140306
305 00000090 CATCONN1 J0141625
305 00000090 DELOCAT J0141626
305 00000090 DELOCAT J0141627
305 00000090 DELOCAT J0141628
305 00000090 DELOCAT J0141629
305 00000090 CATDIAG1 J0141630
305 00000090 VVDDIAG1 J0141631
305 00000090 LISTCAT1 J0141632
305 00000090 CATDEFI1 J0141634
305 00000090 CATCOPY1 J0141635
305 00000090 CATCOPY2 J0141638
305 00000090 CATCONN2 J0141646
305 00000090 CATCONN2 J0141647
305 00000090 CATCOPY3 J0141648
305 00000090 COMPCATS J0141649
305 00000090 COMPCATS J0141656
305 00000090 DEFALIAS J0141657
F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel
MA D 04/015
```

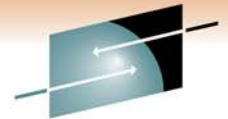
Java to Create CSV File for Spreadsheet Import Showing Top Spool Consumers



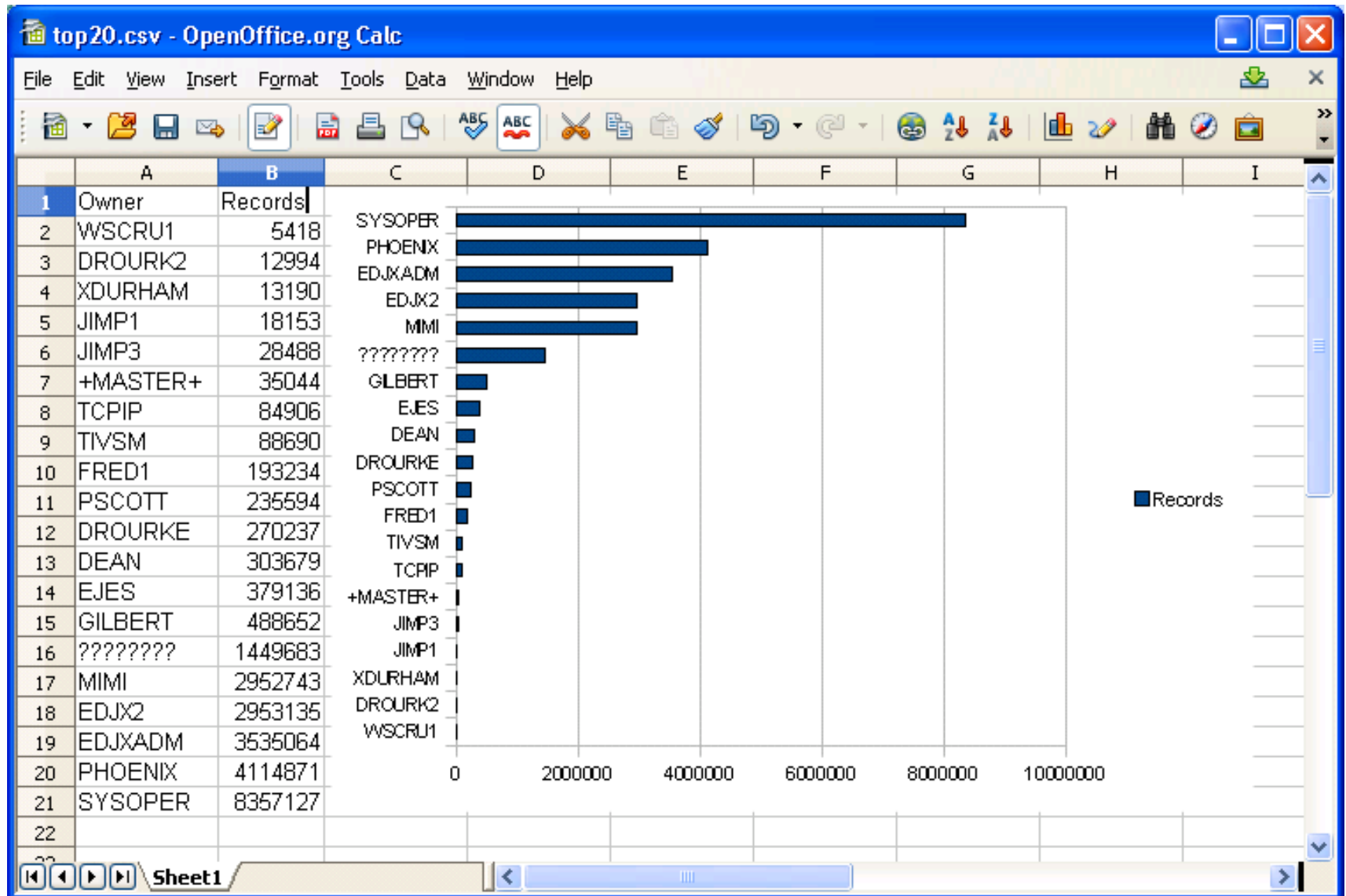
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```
000001 import java.util.*;
000002 import com.phoenixsoftware.ejes.*;
000003 import static com.phoenixsoftware.ejes.EjesApi.Column;
000004 public class sample01 {
000005     static final int MAX_TOP = 20;
000006     public static void main( String[] args ) {
000007         Map<String,Column> cm = new HashMap<String,Column>();
000008         Map<String,Long> map = new HashMap<String,Long>();
000009         String key = null;
000010         Long value = null;
000011         /* Request enumeration of STATUS display */
000012         EjesApi api = new EjesApi( "sres;st", 100 );
000013         if ( api.returnCode <= 4 ) {
000014             String [] columnList = { "OWNER", "RECORDS" };
000015             while ( api.returnCode <= 4 ) {
000016                 Column[][] tabular = api.enumerateColumns( columnList );
000017                 /* Calculate sum of all records per user */
000018                 if ( tabular != null ) {
000019                     for ( Column[] row : tabular ) {
000020                         for ( Column col : row )
000021                             cm.put( col.columnName, col );
000022                         key = cm.get("OWNER").columnText;
000023                         value = cm.get("RECORDS").columnValue;
000024                         Long r = map.get( key );
000025                         map.put( key, r == null ? value : r + value );
000026                     }
000027                 }
000028                 /* Get next enumeration set */
000029                 if ( api.returnCode != 0 )
000030                     break;
000031                 api.runCommand( "" );
000032             }
000033             /* Create sortable string List */
000034             List<String> list = new ArrayList<String>(map.size());
000035             Iterator<Map.Entry<String,Long>> m = map.entrySet().iterator();
000036             while ( m.hasNext() ) {
000037                 Map.Entry<String,Long> entry = m.next();
000038                 Formatter f = new Formatter();
000039                 f.format( "%,25d %-10.10s", entry.getValue(), entry.getKey() );
000040                 list.add( f.toString() );
000041             }
000042             Collections.sort( list, Collections.reverseOrder() );
000043             /* Output top spool users */
000044             ListIterator<String> i = list.listIterator();
000045             System.out.printf( "%-10.10s %25.25s\n", "Owner", "Records" );
000046             for ( int n = 0 ; n < MAX_TOP && i.hasNext() ; n++ ) {
000047                 String s = i.next();
000048                 System.out.printf( "%-10.10s ", s.substring(26).trim() );
000049                 System.out.printf( "%25.25s\n", s.substring( 0, 25 ).trim() );
000050             }
000051         }
000052         api.free();
000053     }
}
```

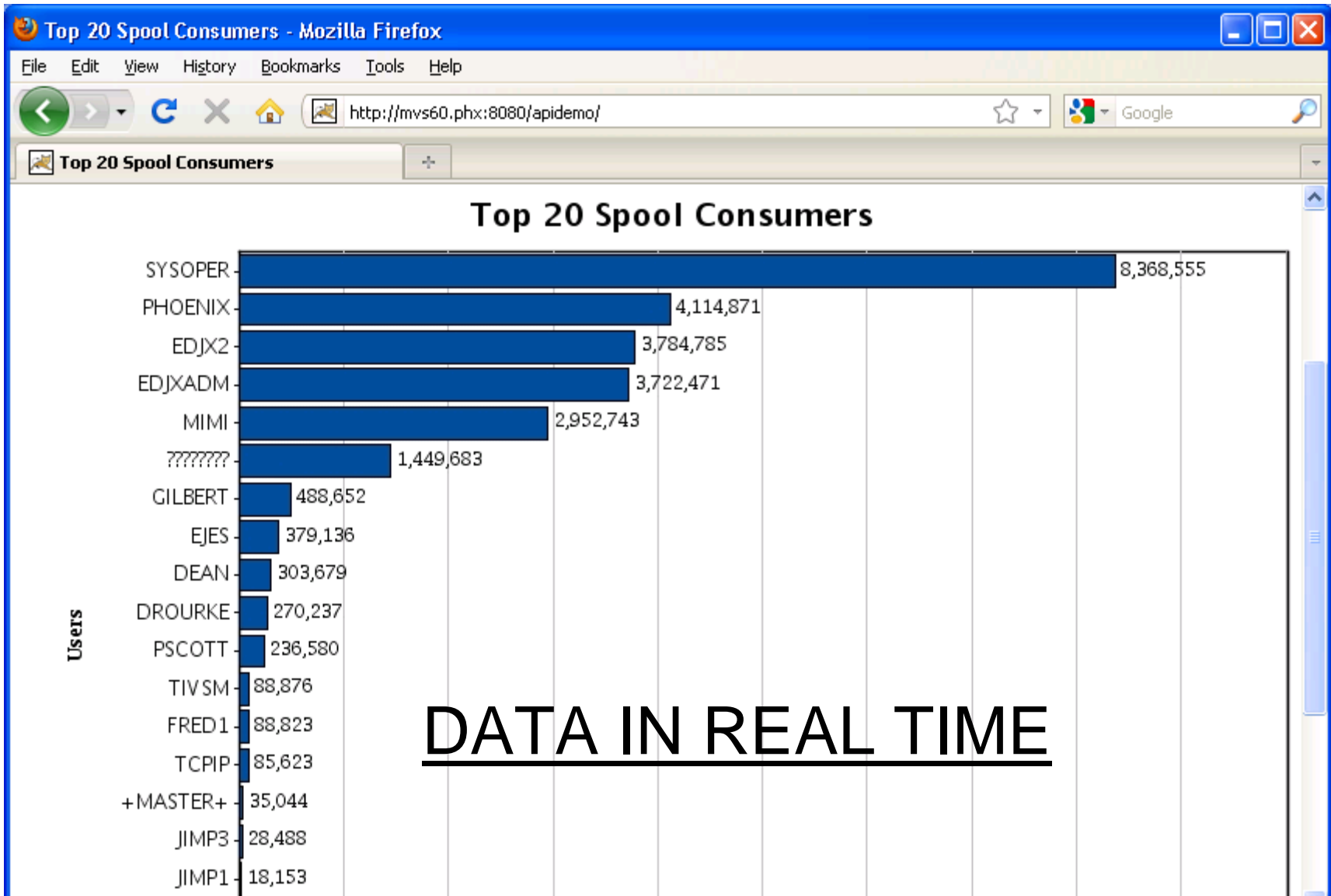
Result After Opening CSV File With OpenOffice.org and Inserting a Chart

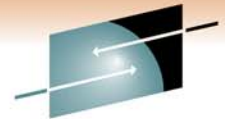


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Java Sample Modified to Use Krysalis jCharts Under z/OS Apache Tomcat





Customer Application Infrastructure

- The Customer Application Infrastructure (CAI) is an integrated framework for TSO/ISPF that allows REXX-based customer and end user plug-in applications to be authored to customize and/or extend the capabilities of (E)JES for local environments.

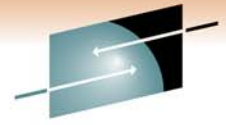
```

Jobs Resources Devices Tools Filter View Options Help
-----
S
C
C
-
File
-----
Customer Applications      Row 1 to 6 of 6
Command ==> _             Scroll ==> PAGE
-----
I - Insert new entry      Overtyp e existing
D - Delete existing entry entries to update
S - Select existing entry them.

  Cmd-Key   Exec-Name   Comment
.. F_       EJES#RF_      TCP/IP FTP PUT a Report Object
.. M_       EJES#RM_      TCP/IP SMTP (e-mail) a Report Object
.. X_       EJES#RX_      TSO XMIT a Report Object
.. R_       EJES#RR_      TSO Receive a Spool Data Set
.. S_       EJES#RS_      Resubmit Job Without Editing
.. DX      IPCMDUMP    Extract and process SYSMDUMP with IPCS
***** Bottom of data *****
F1=Help      F3=Exit      F10=Actions  F12=Cancel

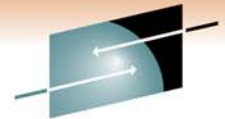
JES3      S0063394  QUEUED    PRINT      1 206      AB S2FB     100
SYSLOG    S0063382  QUEUED    PRINT      1 207      CC 0000     312
EDJXADM   T0063342  QUEUED    PRINT      1 201      CC 0000     32
DBOND     T0063336  QUEUED    PRINT      1 200      CC 0000     30
EDJX2     T0063298  QUEUED    PRINT      1 198      AB S522     376
of 725
> CSR
s Pa
->
378
93
32
32
446
374
55
,018
55
100
,397
0
53
56
53
100
312
32
30
376

```



IPCS SYSMDUMP Plug-In Source Code

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          SYS2.REXXPROC(IPCMDUMP) - 01.01          Columns 00001 00072
Command ==>          Scroll ==> CSR
000013 IPCMDUMP:
000014
000015     call EJES#UPQ
000016     "ispexec vget (objtype dsn) shared"
000017
000018     if RIGHT(objtype,2) <> "DD" then do
000019         say "IPCMDUMP: This function supported only for data sets"
000020         return 8
000021     end
000022
000023     RC = OUTTRAP('outline.')
000024     "delete '"dsn'"
000025     RC = OUTTRAP('off')
000026
000027     RC = EJES#UEX("RECFM(FBS) MSGSUPP"
000028                 "SPACEPRI(100) SPACESEC(100) SPACETYP(CYL)")
000029     if RC > 0 then exit RC
000030
000031     "%BLSCDDIR"
000032     delstack
000033     queue "ADDUMP DATASET('"dsn"')"
000034     queue "END"
000035     queue ""
000036     "IPCS"
000037
000038 return 0
***** ***** Bottom of Data *****
F1=Help      F3=Exit      F5=Rfind     F6=Rchange   F12=Cancel
MA  D                                              04/015
```



Invoking IPCS SYSMDUMP Plug-In

```

Jobs Resources Devices Tools Filter View Options Help
DSSTAT EDJX2 T0160197 37,958 Records Row 1 of 1
Command ==> Scroll ==> CSR
Cmd Row DDName StepName ProcName Que* C Pri Cpy Hld Destination Records
-----
. 1 SYSMDUMP $IKJTEST $IKJTEST HLD D 15 1 ANYLOCAL 37,958
***** Bottom of Data *****

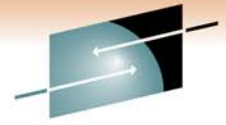
File
-----
Customer Applications Row 1 to 6 of 6
Command ==> Scroll ==> PAGE

I - Insert new entry Overtyping existing
D - Delete existing entry entries to update
S - Select existing entry them.

Cmd-Key Exec-Name Comment
.. F_ EJES#RF_ TCP/IP FTP PUT a Report Object_____
.. M_ EJES#RM_ TCP/IP SMTP (e-mail) a Report Object__
.. X_ EJES#RX_ TSO XMIT a Report Object_____
.. R_ EJES#RR_ TSO Receive a Spool Data Set_____
.. S_ EJES#RS_ Resubmit Job Without Editing_____
.. s' DX IPCMDUMP Extract and process SYSMDUMP with IPCS
***** Bottom of data *****
F1=Help F3=Exit F10=Actions F12=Cancel

Dump directory name 'EDJXADM.DDIR' will be used
ALLOCATE FILE(IPCSDDIR) REUSE DSNAME('EDJXADM.DDIR') SHR /* @P1C*/
Dump directory 'EDJXADM.DDIR' allocated to FILE(IPCSDDIR)
***

```



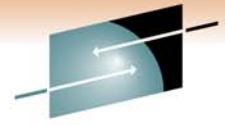
Results of IPCS SYSMDUMP Plug-In

```
BLS21001I IPCS for z/OS 01.12.00
BLS18124I TITLE=JOBNAME EDJX2      STEPNAME $IKJTEST$IKJTEST SYSTEM 0C1
DSNAME('EDJXADM.EDJX2.T0160197.D0000009')added to inventory
***
```

```
IPCS INVENTORY - EDJXADM.DDIR -----
Command ==> _                               SCROLL ==> CSR

AC  Dump Source                               Status
---  -
DSNAME('EDJXADM.EDJX2.T0160197.D0000009') . . . . . ADDED
Title=JOBNAME EDJX2      STEPNAME $IKJTEST$IKJTEST SYSTEM 0C1
Psym=AB/S00C1 VALU/H00AC89B8 REGS/0C032 PRCS/00000001
***** END OF IPCS INVENTORY *****
```

```
IKJ56650I TIME-04:39:25 PM. CPU-00:01:29 SERVICE-253162 SESSION-00:45:21 FEBRU
ARY 2,2011
BLS18122I Initialization in progress for DSNAME('EDJXADM.EDJX2.T0160197.D000000
9')
BLS18124I TITLE=JOBNAME EDJX2      STEPNAME $IKJTEST$IKJTEST SYSTEM 0C1
BLS18223I Dump written by z/OS 01.12.00 SYSMDUMP - level same as IPCS level
BLS18222I z/Architecture mode system
BLS18160D May summary dump data be used by dump access? Enter Y to use, N to b
ypass.
y
BLS18221I Input data set contains data from multiple dumps, a logical EOF will
be processed.
BLS18123I 12,650 blocks, 52,624,000 bytes, in DSNAME('EDJXADM.EDJX2.T0160197.D0
000009')
IKJ56650I TIME-04:40:54 PM. CPU-00:01:30 SERVICE-261121 SESSION-00:46:50 FEBRU
ARY 2,2011
BLS18104I Symbol IARHVSHR not found
BLS18104I Symbol IARHVCOM not found
BLS18224I Dump of z/OS 01.12.00 - level same as IPCS level
***
```



Using SMTP (E-Mail) Plug-In

```
Jobs Resources Devices Tools Filter View Options Help
STATUS 2,435S 3X 321W 5H 1T 3,589,669 Records Row 1 of 330
Command ==>
Cmd Row JobName J
.m 1 FTP2TSM J
2 TRSPACK J
3 EDJXADM T
4 FTP2TSM J
5 TRSPACK J
6 TRSPACK J
7 EJES$ENV J
8 FTP2MVS J
9 FTP2MVS J
10 TRSPACK J
11 TRSPACK J
12 FTP2TSM J
13 TRSPACK J
14 RACFPGMC J
15 FTP2TSM J
16 TRSPACK J
17 TRSPACK J
18 EJES$PAP J
19 EJES$PRC J
20 RESTORE J
21 EJES$PAP J0162068 W-OUTPUT OUTSERV 1 2 CC 0000 2
22 EJES$PRC J0162067 W-OUTPUT OUTSERV 1 2 CC 0000
23 RESTORE J0162065 W-OUTPUT OUTSERV 1 2 CC 0000 1
24 EJES$PRC J0162064 W-OUTPUT OUTSERV 1 2 CC 0004
25 EJES$PAP J0162063 W-OUTPUT OUTSERV 1 2 CC 0000 2
F1=Help F3=Exit F7=Up F8=Down F10=Left F11=Right F12=Cancel
```

File Contacts

E-Mail Parameters

SMTP Information:
NJE Node Name . . . PHXHQ (blank for prompt)
SMTP User ID . . . SMTP

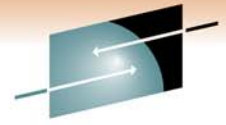
E-Mail Information:
From . . . edjaffe@phoenixsoftware.com
To . . . -
Cc . . . -
Subject: . Trace uploaded to TSM support

More: +

Cover Letter:
Dude, the job to send the requested trace to the
TSM support folks has finished. It is attached...
- Ed's evil twin! :D

F1=Help F2=Split F3=End F4=Lookup F7=Up
F8=Down F9=Swap F12=Cancel

MA D 15/037



Using SMTP (E-Mail) Address Book

```
Jobs Resources Devices Tools Filter View Options Help
STATUS 2,435S 3X 321W 5H 1T 3,589,669 Records Row 1 of 330
Command ==>
Cmd Row JobName J File Contacts
-----
.m 1 FTP2TSM J E-Mail Parameters
2
3
4 File Contacts
5 -----
6 Address Book Entries Row 1 to 4 of 4
7 Command ==>
8
9 Last First E-Mail Address
10 -----
11 Gilbert Amy amygilbert@phoenixsoftware.com
12 s Jaffe Ed edjaffe@phoenixsoftware.com
13 Rourke Dave daverourke@phoenixsoftware.com
14 Scott Paul paulscott@phoenixsoftware.com
15 ***** Bottom of data *****
16
17
18
19
20
21
22
23 F1=Help F3=Exit F10=Actions F12=Cancel
```

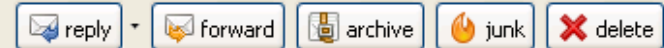
```
INMX000I 0 message and 147 data records sent as 106 records to PHXHQ.SMTP
INMX001I Transmission occurred on 02/03/2011 at 17:27:37.
```

```
*** _
```

E-Mail Message With Job Attachment Successfully Received By Mail Client



from You★
subject **Trace uploaded to TSM support**
to You★



5:27 PM

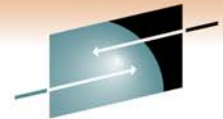
other actions ▾

Dude, the job to send the requested trace to the TSM support folks has finished. It is attached...
- Ed's evil twin! :D

—FTP2TSM..J0162453..txt—

```
IAT6140 JOB ORIGIN FROM GROUP=ANYLOCAL, DSP=IR , DEVICE=INTRDR , 0000
15:57:55 ---- IAT6853 THE CURRENT DATE IS THURSDAY, 03 FEB 2011 ----
IRRO10I USERID EDJXADM IS ASSIGNED TO THIS JOB.
15:57:55 IAT2000 JOB FTP2TSM (J0162453) SELECTED MVS60 SRVCLASS=BATCH
15:57:55 ICH70001I EDJXADM LAST ACCESS AT 15:56:13 ON THURSDAY, FEBRUARY 3, 2011
15:57:55 IEF403I FTP2TSM - STARTED - TIME=15.57.55
15:57:59 - --TIMINGS (MINS.)-- ----PAGING COUNTS----
15:57:59 -JOBNAME STEPNAME PROCSTEP RC EXCP CONN TCB SRB CLOCK SERV PG PAGE SWAP VIO SWAPS
15:57:59 -FTP2TSM 00 754 23 .00 .00 .0 1481 0 0 0 0 0
15:57:59 IEF404I FTP2TSM - ENDED - TIME=15.57.59
15:57:59 -FTP2TSM ENDED. NAME=JAFFE TOTAL CPU TIME= .00 TOTAL ELAPSED TIME= .0
//FTP2TSM JOB 1,JAFFE,CLASS=A,MSGCLASS=T,NOTIFY=&SYSUID
// EXEC PGM=FTP,REGION=64M,TIME=NOLIMIT,PARM='(EXIT'
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
/*
1 //FTP2TSM JOB 1,JAFFE,CLASS=A,MSGCLASS=T,NOTIFY=&SYSUID
IEFC653I SUBSTITUTION JCL - 1,JAFFE,CLASS=A,MSGCLASS=T,NOTIFY=EDJXADM
2 // EXEC PGM=FTP,REGION=64M,TIME=NOLIMIT,PARM='(EXIT'
3 //SYSPRINT DD SYSOUT=*
```

FTP2TSM..J0162453..txt



Workstation Component (Windows Only)

The screenshot displays the t1sy1 Workstation Component interface. The main window, titled "t1sy1 - (E)JES", shows a job log for JES2. A "Job Status - Details View" window is open, displaying a table of job details. A "Data Sets" window is also visible, showing a list of data sets for the selected job.

Job Status - Details View Table:

JobName	JobID	Status	Queue	AMbr	C	JP	Pos	WPos	M
EDJX2	T0063832	QUEUED	PRINT			1	243		AB
PSCOTT	T0063831	QUEUED	PRINT			1	248		CC
ROURKE3	J0063830	QUEUED	PRINT		P	1	241		CC
EDGERASE	S0063829	QUEUED	PRINT			1	240		JC
EDGERASE	S0063827	QUEUED	PRINT			1	239		JC
DROURK3	T0063826	QUEUED	PRINT			1	242		AB
ASCHINT	S0063809	QUEUED	PRINT			1	237		CC
DROURK3	T0063801	QUEUED	PRINT			1	238		
EDJX2	T0063808	QUEUED	PRINT			1	238		AB
APSWFSS4	S0063807	ACTIVE	EXEC	S70		15			
EJESCAS	S0063606	QUEUED	PRINT			1	236		

Data Sets Table:

DDName	StepName	Proc
<input checked="" type="checkbox"/> JESMSGLG	JES2	
<input type="checkbox"/> JESJCL	JES2	
<input type="checkbox"/> JESYSMSG	JES2	