(E)JES Update

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Aug 13, 2013

Session Number 14348

Compatibility Matrix

Operating System	V5R3 09/13*	V5R2 09/12	V5R1 09/11	V4R8 09/10
z/OS 2.1	JES2/JES3	JES3		
z/OS 1.13	JES2/JES3	JES2/JES3	JES2/JES3	JES3
z/OS 1.12	JES2/JES3	JES2/JES3	JES2/JES3	JES2/JES3
z/OS 1.11	JES2/JES3	JES2/JES3	JES2/JES3	JES2/JES3
z/OS 1.10	JES2/JES3	JES2/JES3	JES2/JES3	JES2/JES3
z/OS 1.9	JES2/JES3	JES2/JES3	JES2/JES3	JES2/JES3
z/OS 1.8	JES2/JES3	JES2/JES3	JES2/JES3	JES2/JES3
z/OS 1.7		JES2/JES3	JES2/JES3	JES2/JES3
z/OS 1.6			JES2/JES3	JES2/JES3
z/OS 1.5				JES2/JES3

- V5R3 GA is scheduled for September 2013.
- New release required to support z/OS 2.1 JES2
- z/OS 2.1 JES3 support rolled back to V5R2.
- V4R8 became stabilized at the end of March 2013.

Minimum OS Level and W-OSLVL Delay

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help

INPUT     59S   OX   4W   55H                              Row 1 of 59
Command ===>  _                                    Scroll ===> CSR
Cmd JobName  JobID     QTime        Spin System-Affinity TGNum TGPct MinOSLvl
<--  _____ _____/_____ _____ _____ _____ _____ _____
     SYMBOLS  J0172445 12:18:24.62                           1    .00  z 2.1.0
     WAIT4REP J0138872 15:55:09.39 SPIN                      1    .00
     WAIT4REP J0138871 15:13:53.70       SB0                 1    .00
     LOGSAVA0 J0040007 00:01:00.77 SPIN SA0                  3    .00
     LISTCAT8 J0038176 16:48:16.62 SPIN                      1    .00
 F1=Help    F3=Exit    F7=Up      F8=Down   F10=Left   F11=Right  F12=Cancel
 .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .
  File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

VIEW       EDJXADM.A.CNTL(SYMBOLS) - 01.00        Columns 00001 00072
Command ===>  _____    Scroll ===> CSR
****** ************************* Top of Data ****************************
000001 //SYMBOLS JOB 1,JAFFE,CLASS=D,MSGCLASS=T,NOTIFY=&SYSUID
000002 // EXEC PGM=IEFBR14
000003 //SYSIN DD *,SYMBOLS=JCLONLY
000004 SYMBOLS
000005 //
 F1=Help     F3=Exit     F4=Expand     F5=Rfind     F6=Rchange  F12=Cancel
MA   D                                                            04/015
```

z/OS 2.1 JES2 Eight-Character Job Classes and Job Class Groups

- z/OS 2.1 JES2 now supports eight-character job classes and allows job classes to be associated with named, eight-character job class groups.

  - Features previously available to JES3 customers only.

- Where ambiguity is possible, the new JES2 syntax for job class lists is used for tabular columns and overtypes:

  - ABCDE means classes A, B, C, D, and E

  - (ABCDE) means job class or group ABCDE

  - (ABCDE,FGHIJ) denotes two classes or groups

- (E)JES retrofits much JES3 job class function to JES2

  - Up to four, eight-character job class wildcard masks

  - JES2 tabular displays reworked to look more like JES3

  - Job class group column shown for z/OS 2.1 JES2+

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help

STATUS     3,499S   53X   3,549W   56H   45T   16,953,521 Records      Row 128 of 3703
Command ===>  _                                                       Scroll ===> CSR
Cmd JobName  JobID     Class    Group     SrvClass Scheduling-Env      Mode ARM PrtD
<—  ————————  ————————/————————  ————————  ———————— ————————————————————  ———————————>
    SYMBOLS  J0172445 D          BATCH                                             LOCA
    EDJXADM  T0172444 TSU                                                          LOCA
    CICSA    S0172443 STC                                                          LOCA
    FTPD     S0172435 STC                                                          LOCA
```

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help

INIT     PHXHQ2 Initiator Status                                        Row 1 of 20
Command ===>  _                                                        Scroll ===> CSR
Cmd Num  Status    Classes    JobName   JobID     C ASID Owner     SysName   JMbr JE
—— ————/————————  ————————   ————————  ————————  — ———— ————————   ————————  ———— —>
    1    INACTIVE  (ABCD)                           004C            MVS70     S70  JE
    2    INACTIVE  A                                 004D            MVS70     S70  JE
    3    INACTIVE  A                                 004F            MVS70     S70  JE
```

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help

MVSAO CLASS    PHXHQ2 Class Status                                      Row 49 of 608
Command ===>  _                                                        Scroll ===> PAGE
Cmd Class   Mbr  Stat Group    Mode WaitCt RunCt  HldCt  MaxRun MbrAff JobRC
—— ————————/————  ———— ————————  ———— —————— —————— —————— —————— —————— —>
    D       S60       BATCH    WLM      0      0      0 *   YES    MAXRC
            S70                                            YES    MAXRC
```

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Job Class Mask Length Control

- JCMLEN command sets job class mask length to 1 or 8
- The setting also affects the Entry Panel and Primary Selection Criteria pop-ups:
  - With JCMLEN=1 there is one eight-character job class mask input field. It is treated as eight, one character job classes.
  - With JCMLEN=8 there are four eight-character job class mask input fields. Each field is treated as an eight-byte job class mask. (Wildcard characters accepted.)
- JCMLEN can also be set from the Options Panel or by using the **Set job class mask length...** dialog, accessed from the **Filter** pull-down under ISPF
- This feature applies to both JES2 and JES3

```
 Jobs  Resources  Devices  Tools  Filter  View  Options  Help
_____
2013/07/26 (2013.207)        (E)JES Entry Panel      MVSA0/SA0 V5R3.0 17:49
Command ===> jcmlen 1_
Default Command ===> ST
                                                          More:        +
Job Names/Nums  ===>          ===>          ===>          ===>
                ===>          ===>          ===>          ===>
Owner IDs       ===>          ===>          ===>          ===>
                ===>          ===>          ===>          ===>
Origins         ===>          ===>          ===>          ===>
Destinations    ===>          ===>          ===>          ===>
Job Classes     ===> ABCDEFGH
```

```
 Jobs  Resources  Devices  Tools  Filter  View  Options  Help
_____
2013/07/26 (2013.207)        (E)JES Entry Panel      MVSA0/SA0 V5R3.0 17:49
Command ===> jcmlen 8_
Default Command ===> ST
                                                          More:        +
Job Names/Nums  ===>          ===>          ===>          ===>
                ===>          ===>          ===>          ===>
Owner IDs       ===>          ===>          ===>          ===>
                ===>          ===>          ===>          ===>
Origins         ===>          ===>          ===>          ===>
Destinations    ===>          ===>          ===>          ===>
Job Classes     ===> ABCDEFGH ===>          ===>          ===>
```

Screen 1 (upper):

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help

STATUS   3,466S  51X  3,518W  56H  45T  16,953,521 Records      Row 1 of 3670
Command ===> jcmlen 1;p_
Cmd  JobName   JobID      Sta
                          /
     EDJX1     T0172583 ACT
     SMFDUMP   S0172582 QUE
     NETTESTR  S0172581 ACT
     EJESC510  S0172579 ACT
     EJESC510  S0172580 ACT
     EJESC520  S0172578 ACT
     EJESC520  S0172577 QUE
```

Primary Selection window (upper):

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help
                    ─ Primary Selection ─
S
C       Job Names  . . .  _____  _____  _____  _____     Row 1 of 3670
C                                                                   Scroll ===> CSR
─       Owner IDs  . . .  _____  _____  _____  _____   axComp  Records
─                         _____  _____  _____  _____                 >
        Origins  . . . .  _____  _____  _____  _____                0
        Destinations . .  _____  _____  _____  _____   C 0000      76
        Job Classes  . .  _____                                              0
        Sysout Classes .  _____                                              0
        Display Jobs      YES  (YES or NO)                                      0
```

Screen 2 (lower):

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help

STATUS   3,466S  51X  3,518W  56H  45T  16,953,521 Records      Row 1 of 3670
Command ===> jcmlen 8;p_
Cmd  JobName   JobID      Sta
                          /
     EDJX1     T0172583 ACT
     SMFDUMP   S0172582 QUE
     NETTESTR  S0172581 ACT
     EJESC510  S0172579 ACT
     EJESC510  S0172580 ACT
     EJESC520  S0172578 ACT
     EJESC520  S0172577 QUE
     EJESCAS   S0172575 ACT
     EJESCAS   S0172576 ACT
     EDJX1     T0172574 QUE
     EDJXADM   T0172573 QUE
     EDJX1     T0172572 QUE
```

Primary Selection window (lower):

```
 Jobs   Resources   Devices   Tools   Filter   View   Options   Help
                    ─ Primary Selection ─
S
C       Job Names  . . .  _____  _____  _____  _____     Row 1 of 3670
C                                                                   Scroll ===> CSR
─       Owner IDs  . . .  _____  _____  _____  _____   axComp  Records
─                         _____  _____  _____  _____                 >
        Origins  . . . .  _____  _____  _____  _____                0
        Destinations . .  _____  _____  _____  _____   C 0000      76
        Job Classes  . .  _____  _____  _____  _____                0
        Sysout Classes .  _____                                              0
        Display Jobs . .  YES  (YES or NO)                                      0
        Display STCs . .  YES  (YES or NO)                         B S878   14,103
        Display TSUs . .  YES  (YES or NO)                                      0
        Display ATXs . .  YES  (YES or NO)                                      0
                                                                  B S622    4,200
        F1=Help     F11=Clear     F12=Cancel                      C 0000       31
                                                                  C 0000       33
```

Enhanced Symbolic Substitution in Filters (Primary, Additional, Metafilters, etc)

- V3R5 introduced *Environment Variables*—symbols derived from the current environment that can be used in filters
  - These have been renamed to *(E)JES Environment Symbols*
- Beginning in this release, z/OS system symbols can also be used. If an ampersand remains after substitution of (E)JES environment symbols, a z/OS symbol substitution service is invoked to process the string.
- Both static (e.g., &SYSNAME) and dynamic (e.g., &WDAY) symbols are supported

```
 Jobs  Resources  Devices  Tools  Filter  View  Options  Help
─────────────────────────────────────────────────────────────────
 2013/08/05 (2013.217)         (E)JES Entry Panel         MVS60 V5R3.0 10:45
 Command ===> J=(A&SYSCLONE.B,&WDAY.*)_
 Default Command ===>
                                                              More:      +

 Job Names/Nums  ===> A60B     ===> MON*     ===>          ===>
                 ===>          ===>          ===>          ===>
```

Substitution for Metafilters is Dynamic

- Most filters are substituted immediately when the filter is established. Substitution for metafilters occurs at the time the filter is actually used. What you type is unchanged.

```
 Jobs   Resources  Devices  Tools  Filter  View  Options  Help

 STATUS   3,295S  145X  3,115W  35H  0T  44,583,780 Records      Row 1 of 3295
 Command ===> fil own=a&sysname.b*_                        Scroll ===> CSR
 Cmd JobName  JobID    Status   Process   StepNum StepName JP MaxComp  Records
```

```
 Jobs   Resources  Devices  Tools  Filter  View  Options  Help
                          ─── Metafilters ───
      Filter  Help

 FILTER   STATUS (MIN)                                       Row 1 of 1
 Command ===>                                             Scroll ===> CSR
 Cmd Column     Title                        Op Value                    Bool

     OWNER      Owner                        =  A&SYSNAME.B*
 ******************************** Bottom of Data ********************************
```

Console Name Collision Resolution

- "Default" console name is chosen by EJESUX10

- Standard behavior is to make the default name = userid

- Many customers implement our distributed modification to derive the last character of the console name from the ISPF window id (1-9,A-W)
  - This allows unique consoles within an ISPF session

- In this release we allow a placeholder character to be inserted anywhere into the console name (e.g. JAFFE%)

- If the placeholder character is present, (E)JES will replace it with blank (only if last character) and then retry again and again with 0-9,A-Z until the console is successfully activated.

Previously Documentation Was Distributed in the Following Formats

- IBM BookManager books
  - Individual parts in SEJEPUBS and SEJEPSHF target libraries
- Adobe PDF documents
  - Individual parts in SEJEPDF target library
- HTML documents
  - A single part (zip file) in SEJEHTML target library
  - These HTML documents were built by exporting Microsoft Word documents. They were poorly formatted, intended for use only by seeing-impaired individuals who required HTML for their assistive technologies.

Documentation Distributed with V5R3

- Eclipse documentation plugins for use with IBM InfoCenter
- Adobe PDF documents
- HTML documents (generated from the Eclipse plugins)
- Each format is delivered as a single part in the new SEJEDOC target library
- New sample job EJES$DOC used to copy the three parts to z/OS UNIX directories of your choosing

Format	File Name
Eclipse	com.psi.ejes_doc.5.3.0.jar
Adobe	ejes_pdf.5.3.0.zip
HTML	ejes_html.5.3.0.zip

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Supported Documentation Formats

(E)JES documentation is now distributed in three formats:

Format	File Name	Where Located
Adobe PDF documents	ejes.pdf_5.3.0.zip	SEJEDOC(EJES53AD)
HTML documents	ejes.html_5.3.0.zip	SEJEDOC(EJES53HT)
Eclipse documentation plugins	com.psi.ejes.pdf_5.3.0.jar	SEJEDOC(EJES53EC)

All three formats are supported by servers running under z/OS. You can copy these files to other platforms as well.

The Eclipse documentation plugins are intended for use in an IBM InfoCenter on z/OS or other supported platform. The HTML format is a stand-alone version of the Eclipse-based documentation.

(E)JES documentation is no longer delivered in BookManager softcopy format.

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Chapter 11. Using EJESMAIL to Email JES Job SPOOL Data

EJESMAIL is a REXX exec written to help customers send textual job output via email. It is not part of the Customer Application Infrastructure (CAI), but it does rely on some of the CAI utilities.

EJESMAIL can be invoked as a TSO/E foreground command, from the z/OS UNIX OMVS command prompt, as a batch job step, or under System REXX.

EJESMAIL supports the same three mail transport agents supported by the CAI email plug-in and utilities: NJE, direct sockets, and XMITIP.

EJESMAIL is invoked with the following syntax. Optional parameters must appear in the order shown:

```
                                 <
>>──EJESMAIL─fromemail─toemail─┬──────────────┬─────────────────────────>
                              │      <        │        <
                              └─CC ccemail──┘ └─BCC bccemail──┘

>─(──┬─NJE:njenode:smtpuserid────────────────────────────────────────>
     ├─SOCKETS:serveripaddr:serveripport─┐  └─JOB:jobname:jobid─┘
     └─XMITIP──────────────────────────

>─┬────────────────────────────────┬──┬─SUBJECT:"subjectline"─┐──────>
  │      <                         │
  └─DD:ddname.stepname.procstep──┘
```

InfoCenter Search Integration Under ISPF

- **F6** is now assigned to the **INFO** command
  - Previously **F6** was assigned to the **BOOK** command
  - **BOOK** command moved to **F18** (Shift+F6)
- INFO command with no explicitly-specified search words and cursor not positioned results in display of InfoCenter Search pop-up
  - Search words can be entered and search launched
  - InfoCenter parameters pop-up is requested by pressing **F6** on InfoCenter Search pop-up
- INFO command with explicitly-specified search words or cursor positioned to word within scrollable area initiates an InfoCenter search

Jobs   Resources   Devices   Tools   Filter   View   Options   Help
─────────────────────── InfoCenter Search ───────────────────────
O   2013/07/13
C   To search the InfoCenter, type a search string below.   l ===> CSR
C   To define InfoCenter parameters, press F6.
<-   ---13----+->
C   Search for _____
I
I   F1=Help   F6=Setup   F11=Clear   F12=Cancel
I
IEA519I IODF DSN = SYS4.IODFA0
IEA520I CONFIGURATION ID = ZOS   . IODF DEVICE NUMBER = 8100
IEA091I NUCLEUS 1 SELECTED
IEA370I MASTER CATALOG SELECTED IS CATALOG.MCATZ.PHXHQ
IEA009I SYMBOLIC DEFINITIONS WILL BE READ FROM: 008
        IEASYM00
        IEASYM18
IEE252I MEMBER IEASYM00 FOUND IN SYS2.PARMLIB
IEE252I MEMBER IEASYM18 FOUND IN SYS2.PARMLIB
*IEA008I SYSTEM PARMS FOLLOW FOR z/OS 02.01.00 HBB7790 011
        IEASYS18
        IEASYS02
 F1=Help   F3=Exit   F6=Info   F7=Up   F8=Down   F10=Left   F11=Right
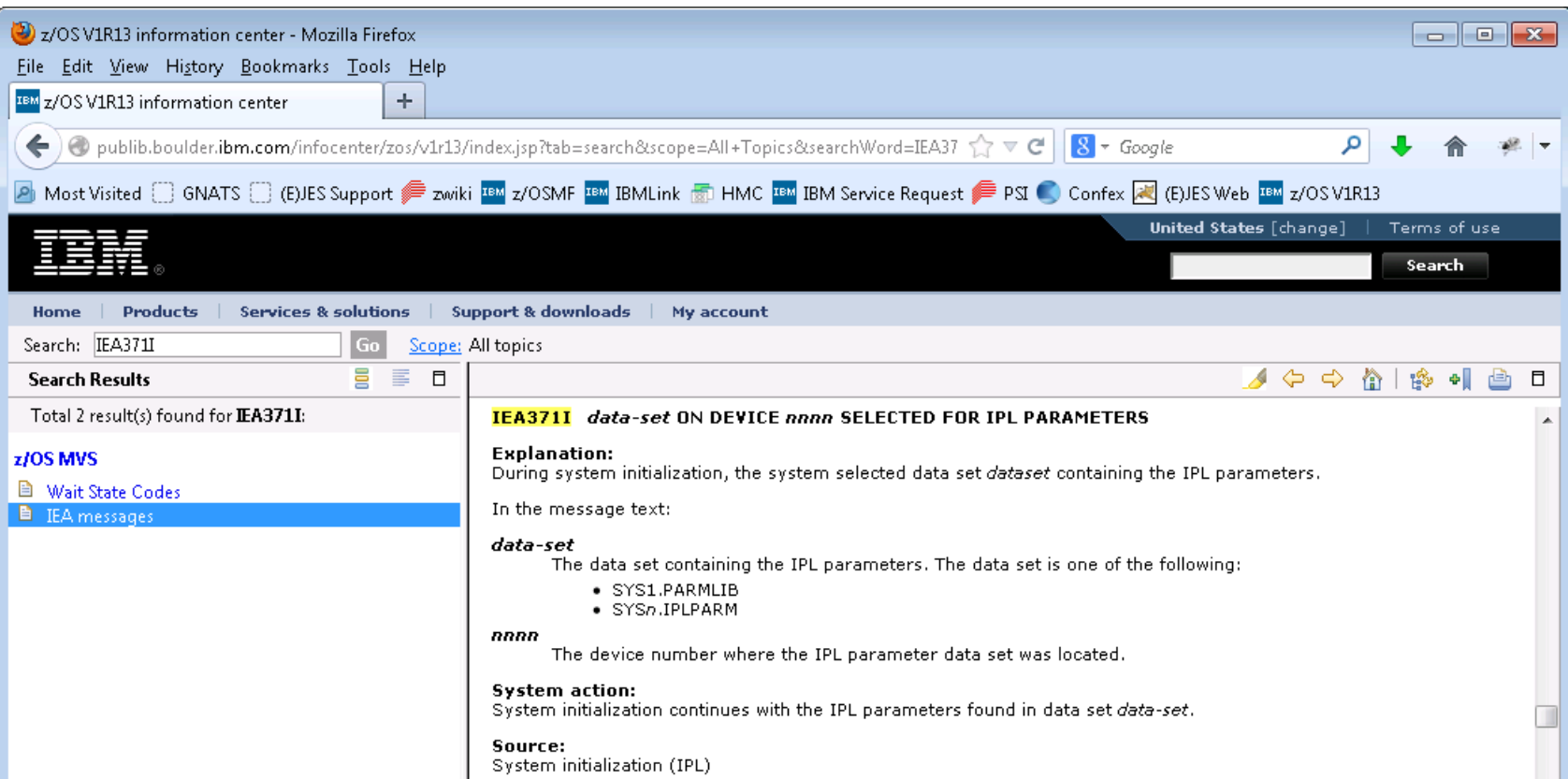F12=Cancel
MA   D   07/019

InfoCenter Setup Pop-up

- Accessed via **F6** from InfoCenter Search pop-up
- Specify URL of InfoCenter server. If not specified, defaults as follows based upon the current z/OS release:
  - http://publib.boulder.ibm.com/infocenter/zos/v2r1
  - http://publib.boulder.ibm.com/infocenter/zos/v1r13
  - http://publib.boulder.ibm.com/infocenter/zos/v1r12
  - http://publib.boulder.ibm.com/infocenter/zos/v1r11
- Scope defaults to **All Topics**
- Browser name and directory not required for Windows

InfoCenter Search Behavior

- If ISPF Workstation Agent (WSA) connected, web browser is launched on local workstation to initiate the InfoCenter search
  - Connect WSA using WSCON command
  - Do not confuse WSA with ISPF C/S; GUI not required
- If WSA not connected, URL is displayed on 3270 screen
  - Most modern 3270 emulators provide "hot spot" support for URLs displayed within the 3270 presentation area
  - Clicking on the URL usually results in a launching of web browser to process the URL

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BookManager Support Enhanced (Ironically)

- **Set default bookshelf…** pull-down choice removed.

- Previously, BOOK command with no explicitly-specified search terms or cursor positioned to word within scrollable area, invoked BookManager READ stopping at the default bookshelf.

- Support enhanced to stop at new BookManager Search pop-up (analog of InfoCenter Search pop-up.) **F6** now displays the new Default Bookshelf pop-up.

- If default bookshelf not established, z/OS Messages and Codes bookshelf appropriate to the current z/OS release is used (e.g., EZ2MZ940 used for z/OS 1.13).

```
   Jobs   Resources   Devices   Tools   Filter   View   Options   Help
 ┌───────────────────────── BookManager  Search ─────────────────────────┐
O│                                                                        │ /07/13
C│      To search the default bookshelf, type a search string below.      │ > CSR
C│      To define the default bookshelf, press F6.                        │
←│                                                                        │ ----+->
C│      Search for _____ │
I│                  _                                                     │
I│    F1=Help      F6=BkShelf   F11=Clear     F12=Cancel                  │
I│                                                                        │
 └────────────────────────────────────────────────────────────────────────┘
IEA519I IODF DSN = SYS4.IODFA0
```

```
   Jobs   Resources   Devices   Tools   Filter   View   Options   Help
 ┌───────────────────────── BookManager  Search ─────────────────────────┐
O│                                                                        │ /07/13
C│        ┌──────── Default Bookshelf ────────┐   a search string below.  │ > CSR
C│        │                                   │  s F6.                     │
←│        │    Type the name of the default   │                          │ ----+->
C│        │    BookManager bookshelf to be    │                           │
I│        │    searched by the BOOK command.  │                           │
I│        │                                   │   F12=Cancel               │
I│        │    Bookshelf . . . _____       │                           │
IEA51     │                   _              │                           │
IEA52     │   F1=Help   F11=Clear  F12=Cancel │   EVICE NUMBER = 8100      │
IEA09     └───────────────────────────────────┘
```

(E)JES Web Technology Preview

- (E)JES Web is a new, browser-based interface to (E)JES. The initial release, which we currently classify as a technology preview, allows many basic (E)JES functions to be performed.

- Phoenix intends to re-architect, enhance, and federate this technology over time. It is our intent to create a de-Facto interface to (E)JES for users that are uncomfortable navigating traditional 3270 interfaces.

- The RESTful API backing this technology will provide a framework for the creation of Eclipse plug-ins, mobile applications, and other web services clients.

(E)JES Web Technology Stack

- In addition to the wealth of technologies already inherent in the (E)JES base product, (E)JES Web leverages the following core technologies:

  - Ajax
  - C++
  - CSS3
  - HTML5
  - Java
  - Javascript

  - JNI
  - Jquery
  - JqueryUI
  - JSON
  - JSP
  - REST

- Non-core technologies include Apache Tomcat (currently used as the web server), Ifragistics igGrid, HTTP and others.

| 🏠 Jobs ▼ | ≣ Resources ▼ | 🗄 Devices ▼ | 🔧 Tools ▼ | 🔍 Filter ▼ | ? Help | ⬛ Logout | (E)JES® |

STATUS - 3371S- 129X- 3208W- 3   37329721 LINES- 0 PAGES

Devices menu (open):
- Functional Subsystems
- JESPlex Members
- Job Class Groups
- Job Classes
- Network Connections
- Network Servers
- Nodes
- Printers & Punches
- Spool Partitions
- Spool Volumes
- Sysout Classes

JobName	JobID	Status		NumStep	StepName	JP	MaxComp	Records	Lines	Pages	By
MONITOR	JOB01003	X-JES3		0	*JES3DSP	15		0	0	0	
NJECONS	JOB01142	X-JES3		0	*JES3DSP	15		0	0	0	
LOGSAVA0	JOB01274	W-OUTPUT		0		1	CC 0000	19	19	0	
LOGSAVA0	JOB01278	W-OUTPUT		0		1	CC 0000	252	252	0	
LOGSAVA0	JOB03284	W-OUTPUT		0		2	CC 0000	19	19	0	
LOGSAVA0	JOB03288	W-OUTPUT		0		1	CC 0000	251	251	0	
TECHOFF1	JOB04284	H-OPER	CI	0	0	6		0	0	0	
TECHOFF2	JOB04285	H-OPER	CI	0	0	2		0	0	0	
LOGSAVA0	JOB05995	W-OUTPUT	OUTSERV	0	0	1	CC 0000	19	19	0	
LOGSAVA0	JOB05999	W-OUTPUT	OUTSERV	0	0	1	CC 0000	252	252	0	
LOGSAVA0	JOB06000	W-OUTPUT	OUTSERV	0	0	1	CC 0000	8,886	8,546	0	
TIVSMPRT	JOB06715	W-OUTPUT	OUTSERV	0	13	2	CC 0000	2,295	2,230	0	2
TIVSMPRT	JOB06723	W-OUTPUT	OUTSERV	0	13	2	CC 0000	2,295	2,230	0	2
TIVSMPRT	JOB06896	W-OUTPUT	OUTSERV	0	13	2	CC 0000	2,299	2,234	0	2
LOGSAVA0	JOB07847	W-OUTPUT	OUTSERV	0	0	1	CC 0000	19	19	0	
LOGSAVA0	JOB07851	W-OUTPUT	OUTSERV	0	0	1	CC 0000	253	253	0	
LOGSAVA0	JOB07852	W-OUTPUT	OUTSERV	0	0	1	CC 0000	11,161	11,008	0	
SMPOREC	JOB08547	H-OPER	PURGE	0	1	1		0	0	0	
TIVSMPRT	JOB08822	W-OUTPUT	OUTSERV	0	13	2	CC 0000	2,307	2,242	0	2
TECHOFF1	JOB09395	H-OPER	CI	0	0	3		0	0	0	

1 - 20 of 3372 records |← ◄ prev Pg 1 ▼ of 169 next ► →|

🔧 Commands ▼   🔄 Refresh

mvs60.phx:8080/EjesWeb/#

(e) (E)JES Web - STATUS   +

| 🔒 Jobs ⌄ | ■ Resources ⌄ | 🖬 Devices ⌄ | 🔧 Tools ⌄ | 🔎 Filter ⌄ | ⬛ Logout |

(E)JES®

STATUS - 3391S- 2X- 210W- 0H- 0T- 5496641 Records- 5485085 Lines- 0 Pages

JobName	JobID	Status	Process	CurStep	NumStep	StepName	JP	MaxComp	Records	Lines
MONITOR	J0394489	X-JES3	MONITOR	0	0	*JES3DSP	15		0	0
EDJX2	T0438983	W-OUTPUT	OUTSERV	0	1		15	CC 0000	4,969	4,969
EJESOP	J0438985	W-OUTPUT		0	4		6	CC 0000	12,623	12,592
EDJX2	T0438986	W-OUTPUT		0	1		15	CC 0000	2,352	2,352
EJE0PROF	J0438987	W-OUTPUT					6	CC 0000	17,677	17,627
EJESOP	J0438988	W-OUTPUT					6	CC 0000	12,623	12,592
EJESOP	J0438994	W-OUTPUT					6	CC 0000	12,652	12,621
EJESOP	J0438995	W-OUTPUT					6	CC 0000	12,652	12,621
EJESSUBS	J0439008	W-OUTPUT					6	CC 0008	98,745	98,514
EJESSUBS	J0439010	W-OUTPUT		0	4		6	CC 0000	99,179	98,949
EJESSUBS	J0439011	W-OUTPUT		0	4		6	CC 0000	99,181	98,951
EJESSUBS	J0439029	W-OUTPUT		0	4		6	CC 0008	98,905	98,674
EJESSUBS	J0439030	W-OUTPUT		0	4		6	CC 0000	99,292	99,062
EDJX2	T0439031	W-OUTPUT	OUTSERV	0	1		15	CC 0000	40,706	40,706
EJESOP	J0439038	W-OUTPUT	OUTSERV	0	4		6	CC 0008	12,538	12,506
EJESOP	J0439039	W-OUTPUT	OUTSERV	0	4		6	CC 0000	12,686	12,655
EJESOP	J0439041	W-OUTPUT	OUTSERV	0	4		6	CC 0000	12,676	12,645

Context menu:
- Activity
- Alter ›
- **Browse** ›
  - Browse
  - Browse Cntl Blks
  - Browse JCL
  - Browse Job Info
  - Browse Job Info Extended
  - Browse Msg Summary
  - Browse Pattern
- Cancel ›
- DJC ›
- Data Set Status
- Display ›
- Hold ›
- Out Desc
- Release ›
- Requeue ›
- Restart ›
- Run
- Spin
- Sys ›

1 - 17 of 212 records

Pg 1 ⌄   of 13   next ▶   ⇥

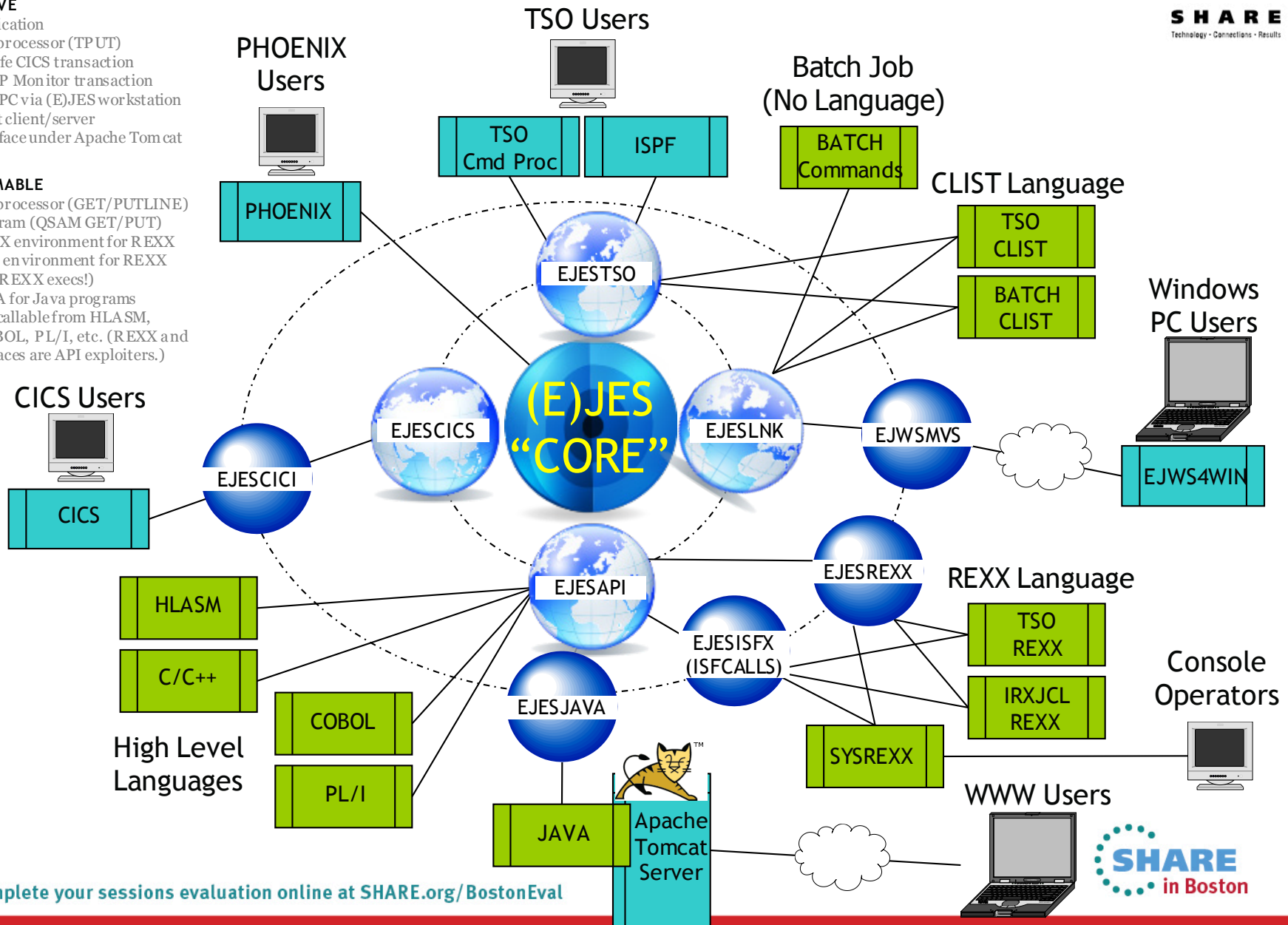mvs60.phx:54761/EjesWeb/#

⟳ Refresh

The Updated (E)JES "Solar System"

INTERACTIVE
- ISPF application
- TSO cmd processor (TPUT)
- Thread-safe CICS transaction
- Phoenix TP Monitor transaction
- Windows PC via (E)JES workstation component client/server
- Web interface under Apache Tomcat

PROGRAMMABLE
- TSO cmd processor (GET/PUTLINE)
- MVS program (QSAM GET/PUT)
- EJESREXX environment for REXX
- ISFCALLS environment for REXX (run SDSF REXX execs!)
- EJESJAVA for Java programs
- EJESAPI callable from HLASM, C/C++, COBOL, PL/I, etc. (REXX and Java interfaces are API exploiters.)

PHOENIX Users

TSO Users

Batch Job (No Language)

CLIST Language

Windows PC Users

CICS Users

REXX Language

Console Operators

High Level Languages

WWW Users

(E)JES "CORE"

EJESTSO
EJESCICS
EJESLNK
EJWSMVS
EJESCICI
EJESAPI
EJESREXX
EJESISFX (ISFCALLS)
EJESJAVA

PHOENIX
TSO Cmd Proc
ISPF
BATCH Commands
TSO CLIST
BATCH CLIST
EJWS4WIN
CICS
HLASM
C/C++
COBOL
PL/I
TSO REXX
IRXJCL REXX
SYSREXX
JAVA
Apache Tomcat Server

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(E)JES Web Deployment

- Each running instance of (E)JES Web must be deployed.
- A sample JCL procedure is provided. The same procedure can be shared by multiple deployments.
- Batch JCL is provided to create a small, read/write zFS file system for running an instance.
- A z/OS UNIX OMVS shell script prompts for eight basic parameters—most of which default naturally.
- The script populates the target instance file system and creates a parmlib member unique to the instance.
- An (E)JES Web instance typically runs as a started task.
- An instance is stopped via the MVS STOP command.

Improved Control of Settings Notices

- There are three settings notices that can appear on scrollable displays: **Filter**, **Option** and **View**. In prior releases, you could choose to display all of them (**ON**) or none of them (**OFF**).

- The DISPLAY command and Options panel have been updated to allow specification of a string consisting of the characters **F**, **O** and **V** (in any order) that indicates which settings notice(s) you would like to see displayed.

  - But you cannot choose the order in which lines are displayed.

- The value **ON** is the same as **F**, which displays the Filter notice only. This represents a change in behavior from prior releases where **ON** caused all three settings notices to be displayed.

```
 Jobs   Resources  Devices  Tools  Filter  View  Options  Help
───────────────────────────────────────────────────────────────────
STATUS    3,493S   141X   2,411W   35H   0T   54,935,116 Records        Row 86 of 2587
Command ===> display_                                          Scroll ===> CSR
FILTER=MaskChar=*%,PSelect=(JName=(/AUTO*) Type=ALL),XSelect=(),Filter=()
Cmd JobName  JobID     Status    Process   StepNum StepName JP MaxComp   Records
─── ──────── ──────── ──────/──── ──────── ──────── ──────── ── ──────── ──────────>
    BKUPLOCL J0451546 W-OUTPUT OUTSERV        1        2 CC 3072          54
```

```
 Jobs   Resources  Devices  Tools  Filter  View  Options  Help
───────────────────────────────────────────────────────────────────
STATUS    3,493S   141X   2,411W   35H   0T   54,935,116 Records        Row 86 of 2587
Command ===> display v_                                        Scroll ===> CSR
VIEW=Arrange=DEFAULT,Detail=MIN,Sort=TIME/D,TopFind=OFF
Cmd JobName  JobID     Status    Process   StepNum StepName JP MaxComp   Records
─── ──────── ──────── ──────/──── ──────── ──────── ──────── ── ──────── ──────────>
    BKUPLOCL J0451546 W-OUTPUT OUTSERV        1        2 CC 3072          54
```

```
 Jobs   Resources  Devices  Tools  Filter  View  Options  Help
───────────────────────────────────────────────────────────────────
STATUS    3,493S   141X   2,411W   35H   0T   54,935,116 Records        Row 86 of 2587
Command ===> display ofv_                                      Scroll ===> CSR
FILTER=MaskChar=*%,PSelect=(JName=(/AUTO*) Type=ALL),XSelect=(),Filter=()
OPTION=CRDelay=1,Cursor=(Retain=ON,Select=OFF),Confirm=ON,DateFmt=YYYY/MM/DD,
OPTION=NumChar=',.',OClass=' ',OvrType=ON,SelCmd=S,Snap=ON,TopSel=OFF,WClass=P,
OPTION=XSelect=NOSAVE
VIEW=Arrange=DEFAULT,Detail=MIN,Sort=TIME/D,TopFind=OFF
Cmd JobName  JobID     Status    Process   StepNum StepName JP MaxComp   Records
─── ──────── ──────── ──────/──── ──────── ──────── ──────── ── ──────── ──────────>
    BKUPLOCL J0451546 W-OUTPUT OUTSERV        1        2 CC 3072          54
```

ISPF Panel Title Line Overlay Protection

- ISPF users can request that up to 17 bytes of session-identifying information be superimposed at the start of the title line for every panel displayed by ISPF. This information includes system name, userid, panel id and/or screen name. In the past, these identifiers could obscure important information being displayed by (E)JES.

- (E)JES will now shift its title line information to the right, as needed, to make room for these identifiers. Right-side truncation of the title line data might occur.

```
   Jobs   Resources   Devices   Tools   Filter   View   Options   Help
 _____
 MVS60 EDJX1      T0451279  <          .         .JESMSGLG>      Line 1 of 142
 Command ===>  _                                               Scroll ===> CSR
 Current Find Text: IPL                                        Dataset 1 of 3
 ---+----1----+----2----+----3----+----4----+----5----+----6---+----7----+--->
 IAT6140 JOB ORIGIN FROM GROUP=ANYLOCAL, DSP=SR , DEVICE=STC      , 0000
 13:15:24 ---- IAT6853 THE CURRENT DATE IS SATURDAY,  20 JUL 2013 ----
```

z/OS UNIX Extract Enhancements

- If the path name input field on the z/OS UNIX Extract Parameters panel specifies a directory, then the file system is interactively traversed. If it specifies a full path and file name, the extract occurs immediately.

- In previous releases, the path name input field was replaced with the full path and file name of a selected file. This meant that subsequent z/OS UNIX extract operations would always write to the same file unless the path name input field was manually altered by the user.

- The path name input field on the z/OS Extract Parameters panel is no longer updated during traversal of the file system except when the **L** line command is issued. Other line commands and operations do not update the path name input field.

Batch Extract Enhancements

- New KEEPOPEN option for non-directed batch extract (i.e., to the EJESEXT DD name) allows many jobs to be sent to the same output file without incurring the overhead of OPEN/CLOSE for each extract operation

- New MARK option for extract operations inserts a unique, yet human-readable, identification record to help post-processors detect the boundary between the results of two different extracts to the same target location
  - The mark record contains **___(E)JES_EXTRACT_MARK___** with **JOBNAME=*jobname*,JOBID=*jobid*** appended if job information is present. Variable-length values are used so that no embedded blanks appear in a mark record.
  - Although technically MARK works for all extract operations, it should be particularly useful with KEEPOPEN

CAI Email Plug-in Recipient Lists

- The CAI plug-in for email (EJES#RM) has been enhanced to support recipient lists for **To:** and **Cc:** addresses. **Bcc:** addresses have been added as well.

  - These new limits are considerably more flexible than the old limits of one, one, and zero respectively ☺

- Pressing **F5** with the cursor positioned to the **To:**, **Cc:**, or **Bcc:** line invokes the recipient list dialog for the selected list

- On the main dialog, only the first email address from the list is shown. An ellipsis is displayed when a list is present.

Complete your sessions evaluation online at SHARE.org/BostonEval
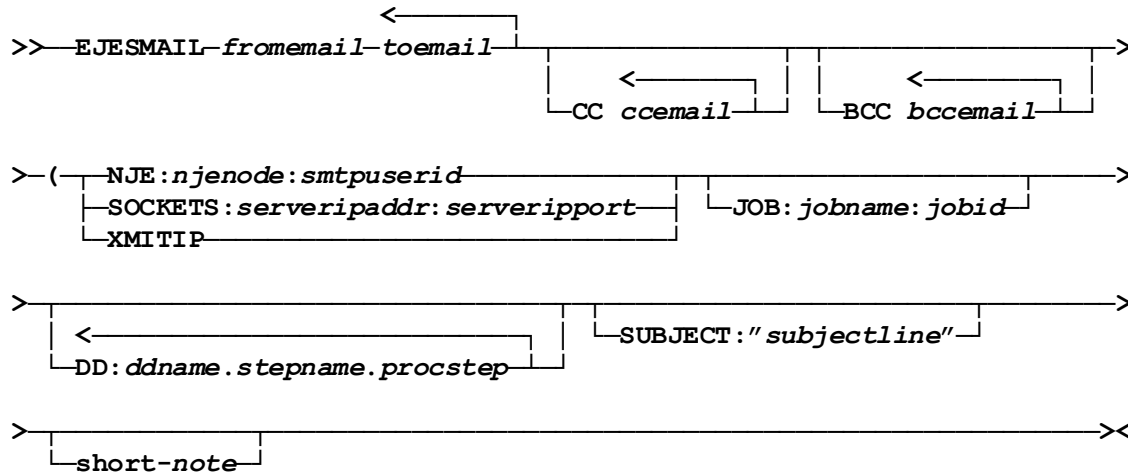
Recipient List Dialog

- The dialog supports **I** (insert) and **D** (delete) line commands.

- A recipient may be hand-typed or selected from the address book. **F4** invokes the address book dialog and pop-up just as it does from the main email dialog.

```
Cmd Job     MVS60              E-Mail Parameters            | ords
                                                              ─────>
      BPX   E-Mail     File  Contacts                           0
      BPX     From  ───────────────────────────────────────    0
      EJE     To .  MVS60           Mail Recipient Lis Row 1 to 2 of 2  0
      EDJ     Cc .      TO:          (TO:, CC:, or BCC:)         0
      BPX     Bcc.  Command ===> _____    0
      TSM     Subj                                              0
.m    MIG           _____  edjaffe@phoenixsoftware.com        130
      MIG   Cover   _____  daverourke@phoenixsoftware.com     130
      EDJ     The   ***************** Bottom of data *****************  0
      EDJ     CAI                                                0
```

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Batch Utility to Email Jobs and Data Sets

- EJESMAIL is a new REXX exec written to help customers send textual job output via email. It is not part of the Customer Application Infrastructure (CAI), but it does rely on some of the CAI utilities.

- EJESMAIL can be invoked as a TSO/E foreground command, from the z/OS UNIX OMVS command prompt, as a batch job step, or under System REXX.

- EJESMAIL supports the same three mail transport agents supported by the CAI email plug-in and utilities: NJE, direct sockets, and XMITIP (from Lionel Dyck).

- EJESMAIL can be a convenient way for a batch job to email some or all of its own output.

EJESMAIL Invocation Syntax

```
                             <──────────────┐
>>──EJESMAIL─fromemail─toemail─┬────────────┬──────┬────────────────┬──>
                               │   <─────┐   │      │   <──────┐      │
                               └─CC ccemail─┘│      └─BCC bccemail─┘
                                             │
                                             │

>─(──┬──NJE:njenode:smtpuserid──────────────┬─┬──────────────────┬──>
     ├──SOCKETS:serveripaddr:serveripport──┤ └─JOB:jobname:jobid─┘
     └──XMITIP────────────────────────────┘

>──┬──────────────────────────────────┬──┬─────────────────────┬──>
   │   <───────────────────────────┐   │  └─SUBJECT:"subjectline"─┘
   └─DD:ddname.stepname.procstep──┘

>──┬───────────────┬──────────────────────────────────────────><
   └─short-note──┘
```

- Operands must appear in the order shown
- *njenode* and *smtpuserid* default to the current node and SMTP respectively
- *jobname* and *jobid* default to the current running job
- *stepname* is used only when *ddname* is not unique; *procstep* is used only when *ddname.stepname* is not unique.
- *short-note* is flowed as a simple paragraph—ideal for cell phone email
- The NOTEDD DD statement is used to provide the text of a more formal cover letter

EJESMAIL Usage Examples

```
//***********************************/
//* Email Output of our Job to JOEUSER  */
//***********************************/
//EMAILJOB EXEC PGM=IKJEFT01
//SYSEXEC  DD DSN=EJES.SEJEEXEC,DISP=SHR
//SYSTSPRT DD SYSOUT=*
//SYSTSIN  DD *
EJESMAIL mysystem@mycompany.com joeuser@mycompany.com +
CC: edjaffe@phoenixsoftware.com paulscott@phoenixsoftware.com +
(NJE Subject:"Output from &JNA" +
Please find attached the output from job &JNA. Thanks!
/*

//***********************************/
//* Email LISTVTOC Output to JOEUSER    */
//***********************************/
//EMAILRPT EXEC PGM=IKJEFT01
//SYSEXEC  DD DSN=EJES.SEJEEXEC,DISP=SHR
//SYSTSPRT DD SYSOUT=*
//SYSTSIN  DD *
EJESMAIL mysystem@mycompany.com joeuser@mycompany.com  +
(XMITIP DD:SYSPRINT Subject:"Result of LISTVTOC command"
//NOTEDD   DD *
Dear Joe,

The LISTVTOC output you requested is attached. We hope it provides you
with the enlightenment you seek.

Thanks,

The Management
/*
```

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Support CMF for ACPLEX=SYS

- Previously, we documented that ACPLEX=SYS worked for IBM's RMF but not for BMC's CMF.

- Our (erroneous) assumption was that the required support was missing from CMF. In fact, the problem was that CMF abended internally with a too-small initial work area size.

- APAR BCM0849 from BMC as well as a *somewhat* larger initial work area size from (E)JES allowed CMF to operate properly. ☺

  - PTFs available for CMF 5.7, 5.8, and 5.9 are BQM0852, BQM0853, and BQM0854, respectively.

- In addition, msgEJES412 was enhanced to display the service reason code. This should help diagnose further RMF/CMF issues without requiring SLIP dumps or traces.

API Updates

- Tabular row attributes (active emphasis, metafilters colorization, etc.)
- Line commands array
  - Command value, text description, intended function
- New environment variables:
  - JES member name, job name, jobid, userid
- **Note:** As requirements are recognized, they are implemented throughout the entire API stack:
  - EJESAPI and EJESAPI4 (HLASM, C/C++, etc.)
  - EJESREXX (REXX)
  - EJESJAVA (Java)
  - (E)JES Web has become a major API exploiter.

Self-describing SMF Record Format

- Since inception, the (E)JES SMF record has been a fixed-format structure.

- You can now optionally use a new, self-describing format that uses "triplets" to contain offsets, lengths and counts of the various sub-segments that comprise the record.

- The advantage of the new format is that existing segments can be extended and new segments can be added non-disruptively.

- Your choice is specified via the SMFREC installation options parameter. The default is the original 'Format 0' record. You specify 'Format 1' to get the self-describing records.

Date Format Consistency in SMF Record

- There are two date fields in the (E)JES SMF record: ESMFDATE and ESMFDBGN. The first is part of the SMF record header; its format follows the standard set forth by SMF: 0cyydddF. The second has, until now, always been in (E)JES internal date format: 0yyyyddd.

- This inconsistency created a challenge for customers that tried to post-process (E)JES SMF records.

- Beginning with this release, both date fields will use the standard SMF date format.

- Note: MXG 30.09 and higher automatically recognizes and handles both old and new date formats in the (E)JES SMF record.

Miscellaneous Updates

- Support for z/OS 2.1 JES3 dynamic spool removal
  - This is a major feature, but there's not much to show, so it shows up as "miscellaneous." Suffice it to say that (E)JES won't abend when a SPOOL volume is removed in z/OS 2.1.
- Function key to clear input on pop-up windows (F11)
- New CRETAIN=NEVER setting
  - Forces cursor back to the command line in all cases, even when returning from a sub-function. (CRETAIN=NO keeps the cursor on the row when returning from a sub-function.)
- SRESET command renamed to PRESET. SRESET will continue to work for the foreseeable future.
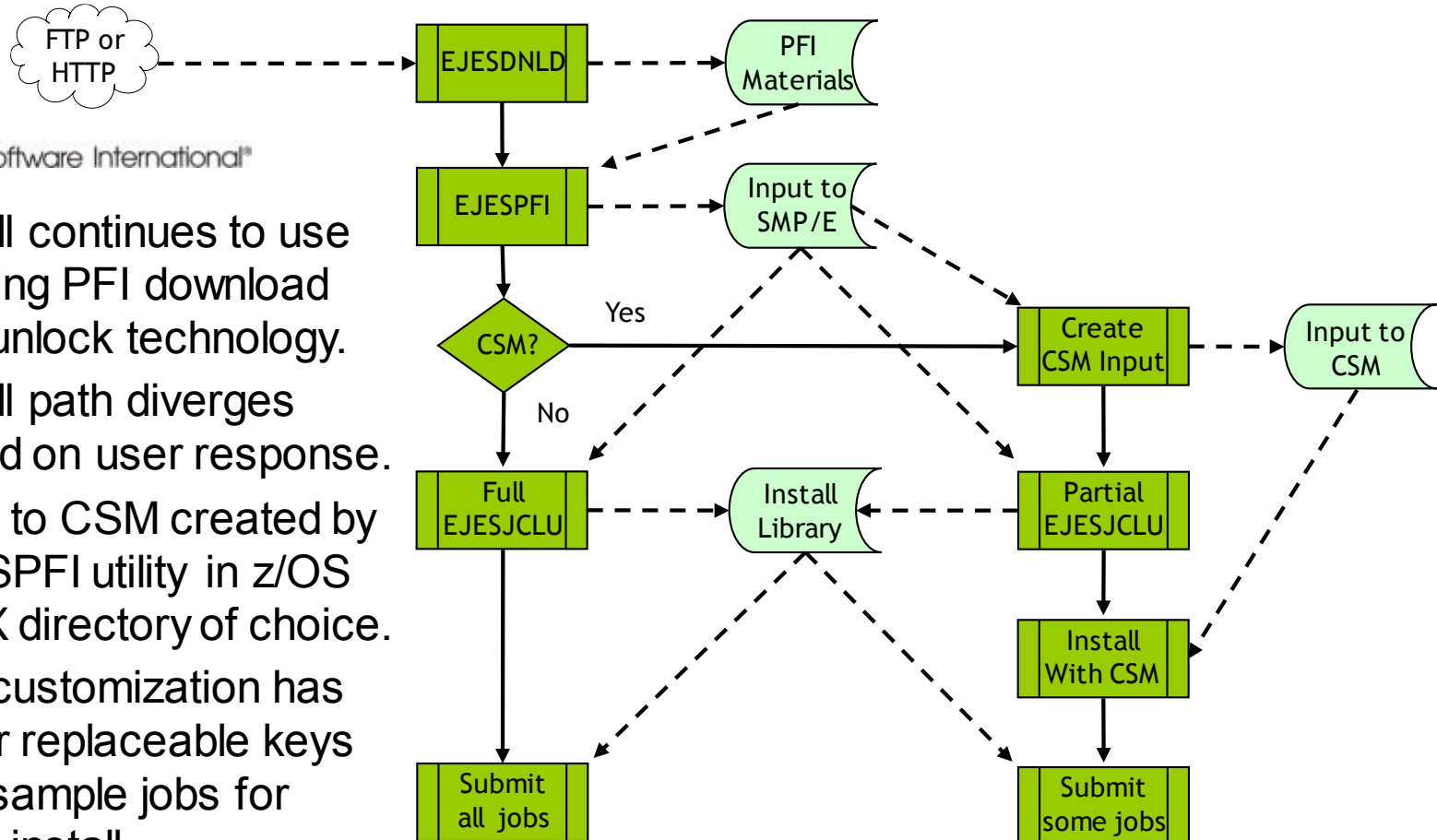
New Security Extensions User Exit

- New user exit EJESUX14 is designed to provide various security extensions. Currently only one function is provided: <u>Data Set Browse Authority</u>.

- The exit gets control just before security checking is performed when browsing (or otherwise displaying the contents of) a SPOOL data set.

- Return codes can choose to always accept, always reject, or continue with normal security processing.

Installation via Chorus Software Manager from CA Technologies

PHOENIX Software International®

- Install continues to use existing PFI download and unlock technology.
- Install path diverges based on user response.
- Input to CSM created by EJESPFI utility in z/OS UNIX directory of choice.
- JCL customization has fewer replaceable keys and sample jobs for CSM install.

FTP or HTTP → EJESDNLD → PFI Materials

EJESPFI → Input to SMP/E

CSM? — Yes → Create CSM Input → Input to CSM

No

Full EJESJCLU → Install Library ← Partial EJESJCLU

Install With CSM

Submit all jobs

Submit some jobs

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```
-------------------- Install JCL Customization Utility --------------- V5R3
Command ===> _
                                                                  More:   - +

Customization Library Parameters:
    Data Set Name             ===> EDJX1.SMPE530.INSTALL


Target Library Parameters:
    Dsname Prefix             ===> EJES
    z/OS UNIX Path            ===> /usr/lpp/ejes


Maintenance Data Set Parameters:
    Dsname Prefix             ===> EJES


Documentatation Parameters:
    Adobe Document Path    ===> /local/PDFdocs
    HTML Document Path     ===> /local/HTMLdocs
    Eclipse Plugins Path   ===> /local/infocenter/eclipse/plugins


System Data Set Parameters:
    JES Library Prefix     ===> SYS1
    TCPIP Library Prefix   ===> TCPIP


CICS Profile Data Set Parameters:
 F1=Help      F3=Exit    F12=Cancel
MA     D                                                           02/015
```

Eleven prompts disappear for CSM install

PTF and USERMOD Transformation

- For traditional install, PTFs and USERMODs are delivered as batch JCL.

- When using CSM install, these members are transformed into pure SMP/E input and renamed.

  - PTFs renamed from EJES$xxx to PTFCxxx

  - USERMODs renamed from EJES$xxx to UMODxxx

```
//EJES$LIC JOB 1,'LICENSING',
... (JECL and comments)
//PROCLIB  JCLLIB ORDER=EDJXADM.SMPE530.INSTALL
// EXEC PROC=EJES$SMP
//SMPCNTL  DD *
 SET BDY(GLOBAL) OPTIONS(EJESGOPT) .
 RECEIVE SYSMODS LIST .
 SET BDY(EJESTZN) OPTIONS(EJESGOPT) .
 APPLY S(EJESLIC) REDO C(ALL) .
//SMPPTFIN DD *
++USERMOD(EJESLIC) REWORK(2013069) .
++VER(Z038) FMID(QEJ5300) .
++SRC(EJESLIC) .
* REL=V5R3 GRACE=2013-01-01
*---+----1----+----2----+----3----+----4----+----5
 EJESGLIC DATA=001307508CD994D2F181590816EF82FF
 EJESGLIC DATA=C4C4E0
 EJESGLIC CKSUM=0000021813
 END ,
//


++USERMOD(EJESLIC) REWORK(2013069) .
++VER(Z038) FMID(QEJ5300) .
++SRC(EJESLIC) .
* REL=V5R3 GRACE=2013-01-01
*---+----1----+----2----+----3----+----4----+----5
 EJESGLIC DATA=001307508CD994D2F181590816EF82FF
 EJESGLIC DATA=C4C4E0
 EJESGLIC CKSUM=0000021813
 END ,
```

```
Portable File Installation Detected ...
Allocating libraries ...
Copying members ...
Customizing members ...
   EJES$ACC: not used for CSM install
   EJES$APP: not used for CSM install
   EJES$CAP: copied and customized
   EJES$CPA: copied and customized
   EJES$DAL: not used for CSM install
   EJES$DDF: not used for CSM install
   EJES$DOC: copied and customized
   EJES$DRL: copied
   EJES$ENA: copied
   EJES$ENV: copied
   EJES$ENV: renamed
   EJES$EN2: copied
   EJES$EN2: renamed
   EJES$EN3: copied
   EJES$EN3: renamed
   EJES$GAL: copied
   EJES$GAS: copied
   EJES$ISF: copied
***  _
MA    D
```

> Some members are not used

```
   EJES$ISF: renamed to PTFCISF for CSM install
   EJES$JNL: copied and customized
   EJES$LDL: copied and customized
   EJES$LIC: copied and customized
   EJES$LIC: renamed to UMODLIC for CSM install
   EJES$LSR: copied and customized
   EJES$LSV: copied and customized
   EJES$OPT: copied and customized
   EJES$OPT: renamed to UMODOPT for CSM install
   EJES$PAC: not used for CSM install
   EJES$PAP: not used for CSM install
   EJES$PDL: copied and customized
```

> Some are transformed and renamed

```
MVS60 ------------------- PFI Installation Utility ------------------- V5R3
Command ===> _


                        _____ CSM _____
                       |                              |
                       |   CA Chorus Software Manager |
                       |                              |
                       |_____|


To use CA Chorus Software Manager to perform the SMP/E install, supply the
following parameters and press the ENTER key. The Java and SMP/E class
paths are needed only if ICSF is not available.

CA Chorus Software Manager Install Parameters:
    Output path ===> /u/edjx1
    Work path   ===> /tmp/edjx1/EJES530
    Java path   ===> /usr/lpp/java/J6.0_64/
    SMP/E path  ===> /usr/lpp/smp/classes

Press ENTER to create input to CA Chorus Software Manager.
Press the END key to continue without creating this file.




F1=Help    F3=Exit   F12=Cancel
MA    D                                                        02/015
```

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```
----------</FILEDEF>
----------<FILEDEF name="EDJX1.SMPE530.$QPX1L10.F2"
----------          archid="QPX1L10.F2" type="SMPRELF"
----------          description="Phoenix TP Monitor load modules">
----------</FILEDEF>
----------</GIMZIP>
GIM47500I    ARCHIVE PROCESSING IS COMPLETE FOR EDJX1.EJESPFI.CSM.SMPMCS.
GIM47500I    ARCHIVE PROCESSING IS COMPLETE FOR EDJX1.SMPE530.$QEJ5300.F1.
GIM47500I    ARCHIVE PROCESSING IS COMPLETE FOR EDJX1.SMPE530.$QEJ5300.F2.
GIM47500I    ARCHIVE PROCESSING IS COMPLETE FOR EDJX1.SMPE530.$ZEJ53U0.F1.
GIM47500I    ARCHIVE PROCESSING IS COMPLETE FOR EDJX1.SMPE530.$ZEJ53U0.F2.
GIM47500I    ARCHIVE PROCESSING IS COMPLETE FOR EDJX1.SMPE530.$ZEJ5300.F1.
GIM47500I    ARCHIVE
GIM47500I    ARCHIVE
GIM47500I    ARCHIVE
GIM47500I    ARCHIVE
GIM47500I    ARCHIVE
PAGE 0002

GIM20501I    GIMZIP
Obtaining CSM metada
PSI.DATASET.XML
*** _
MA    D
```

```
PSI.DEPLOYMENT.XML
PSI.EULA.TXT
PSI.PACKAGE.XML
PSI.README.TXT
PSI.SMPEINSTALL.XML
PSI.SMPESETUP.XML
Creating install package...
EJES530/
EJES530/PSI.DATASET.XML
EJES530/SMPPTFIN/
EJES530/SMPPTFIN/S0001.EDJX1.EJESPFI.CSM.SMPMCS.pax.Z
EJES530/SMPRELF/
                                                         24/006
```

```
MVS60 ------------------- PFI Installation Utility ------------------- V5R3
Command ===> _

                    _____ Congratulations! _____
                  |                                          |
                  |    You have completed all of the         |
                  |    early installation steps!             |
                  |                                          |
                  |_____|

     You should now be ready to use CA Chorus Software Manager to install
     (E)JES. Please continue with Chapter 7. Install (E)JES Using CA Chorus
     Software Manager in (E)JES V5R3.0 Installation to perform the remainder
     of the product installation.

     A copy of your customization library in NETDATA format has been included
     with the CSM package, making it available for post-installation tasks if
     you install on another system. Use member EJES$CSX to retrieve this data.




     F1=Help    F3=Exit    F12=Cancel
     MA    D                                                      02/015
```

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CSM Checklist

- Add (E)JES Product to CSM Software Catalog
- Add (E)JES Install Package (created by EJESPFI)
- Install the (E)JES Product
  - Three install choices:
    - Complete install – all FMIDs
    - Standard install – all FMIDs except Uppercase English
    - Custom install – allows bypass of (E)JES Java and Web components as well as Uppercase English feature
  - You will be prompted for data set HLQs, volumes, etc.
  - If there are any seemingly "redundant" prompts between CSM and EJESJCLU, be sure to specify the same value.
- Install customization USERMODs like normal maintenance

ca CA Chorus™ Software Manager - Add Pr... +

ca technologies CA Chorus™ Software Manager

edjxadm ⏻ ❓

| Software Status | Products | SMP/E Environments | Deployments |

▲ Search

Vendor

Search F...

ation

Search I...
Products

Actions

ntain any

Update C
Show Li...
Add Pro...
Install E
Add CA
Update
Show Hi...

▲ Filte...

Add Product ✕

💬 Specify the name, release, and gen level of the product, and click OK. The product will be added to the product list.

Vendor*: PSI ▾
Product*: (E)JES
Release*: 5.3
Gen Level: 0

OK   Cancel   Help

Feedback | About

---

ca CA Chorus™ Software Manager - swcatl... +

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edjxadm ⏻ ❓

Add External Package ✕

💬 Enter the path to the package for 0.

Type of Input Source

◉ UNIX File ◯ FTP File

UNIX Path*: /u/edjxadm/EJES530.pax.Z

OK   Cancel   Help

⊟ 🗁 Products ▸
  ⊟ 👤 PSI
    ⊟ ◉ (E)JES
      ⊟ 🏷 5.3
        🗁 0

Feedback | About

⏻ ❓

Confi...

S > 5.3

💬 The product was updated in... window.

Add External Maintenance ✕

💬 Enter the path to the maintenance for (E)JES/5.3 - Use the asterisk symbol (*) for PDS and PDSE members.

Type of Input Source

◉ Data Set ◯ UNIX File ◯ FTP File

Data Set Name*: EDJXADM.SMPE530.INSTALL(UMODLIC)

OK   Cancel   Help

Select and: Update Working S...

☑ Select   Nan...
                 EJE...

Available Products

⊟ 🗁 Products
  ⊟ 👤 PSI
    ⊟ ◉ (E)JES
      ⊟ 🏷 5.3 ▸

☑

Selected 1 of 1.

Feedback | About

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ca CA Chorus™ Software Manager - Main ... +

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edjxadm ⏻ ❓

| ents | Deployments | Configurations | System Registry | Tasks | Settings |

0

Products > PSI > (E)JES > 5.3 > 0

Base Install Packages   Add External Package

Show: All ▾

Select and: Download   Show All ▾

Select	Name	Last Modified	Type	Download Status	Size	Release/Gen Level	Actions
☐	EJES530.pax.Z	Mar 11, 2013	Base Install	Yes	30 MB		Actions ▾

Selected 0 of 1.

🗑 Install
🗑 Delete

Feedback | About

S H A R E
Technology · Connections · Results
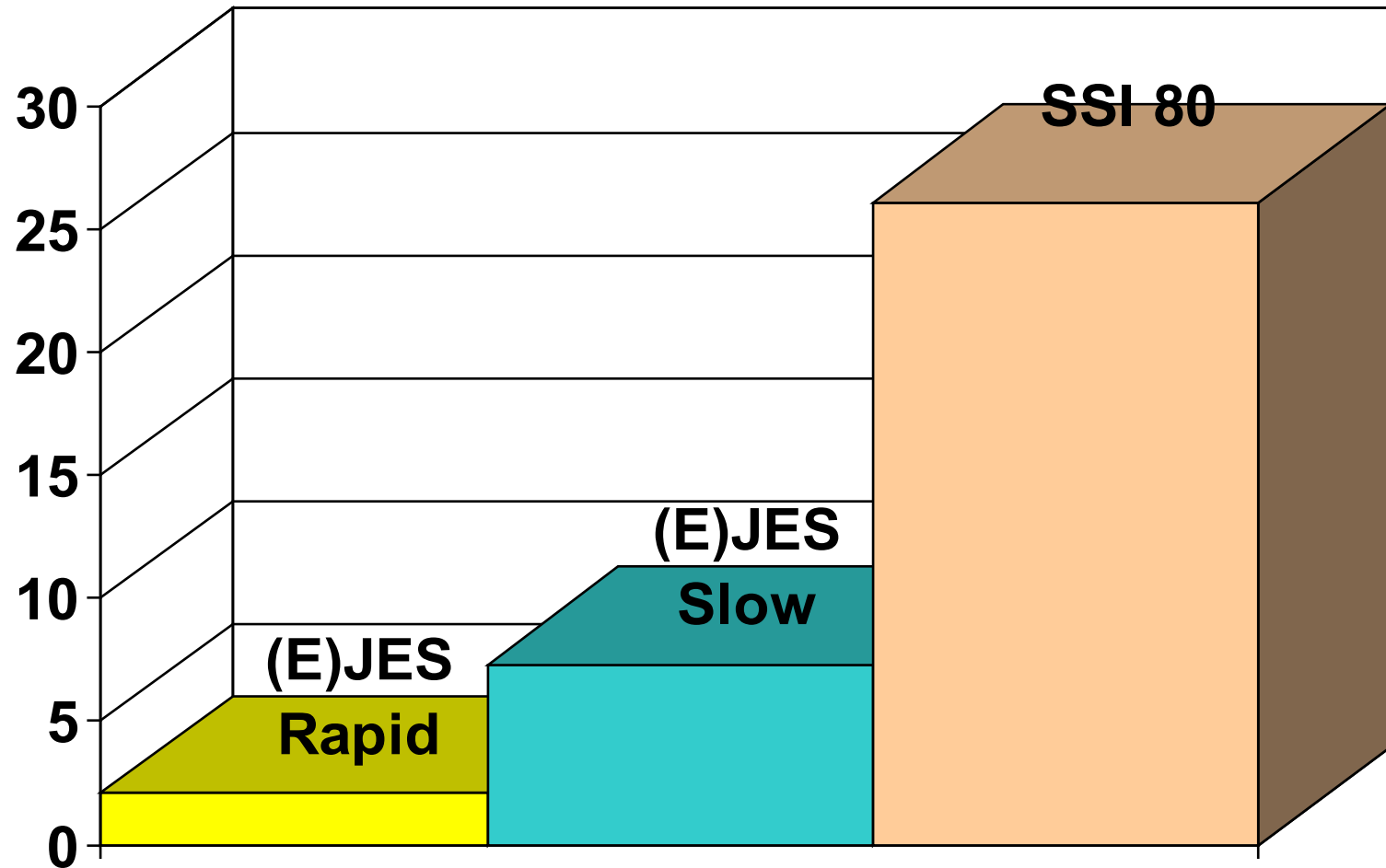
Performance Study

Importance of a Performance Value-Add

- One key goal of any good ISV software product is to try to provide a value-add in the area of performance. This has been one of our primary areas of focus since 1978.
- Back then, there were no specialty engines. Writing well-performing code was the only way to save run-time "hard dollars" for customers.
  - There was/is also the issue of increased user productivity through a rich feature set. Such gains, while substantial, are more difficult to quantify with benchmarks.
- CPU savings is our most important objective. VWLC-style pricing makes this even more important today, especially for products that might run during the afternoon peak.
- I/O performance savings is a close second.

JES2 CPU Performance Quantified

- Competing products tend to rely on the most resource-intensive interface available: the JES-provided SSI 80.

- Our internal benchmark testing against the most readily-available JES2 SSI 80 exploiter showed it needed 3.5x as much CPU as (E)JES to refresh the JES2 HOLD display pressing <Enter> slowly, once every five seconds.

- Pressing <Enter> as rapidly as possible yielded a 12.5x CPU requirement!

- The benchmark was run on an idle 2098-D04 running z/OS 1.13.
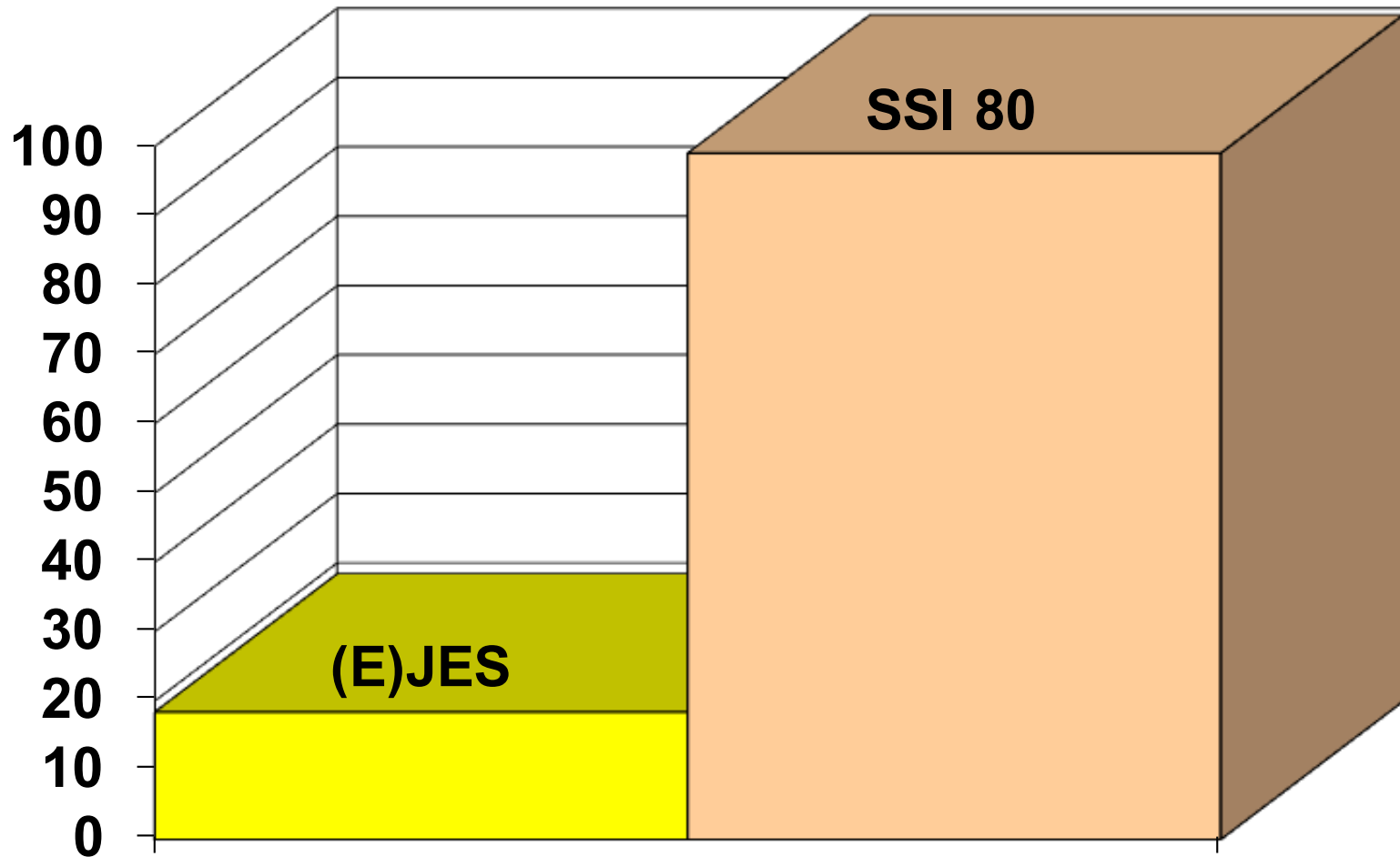
JES2 CPU Performance Quantified: Between 3.5x and 12.5x

Bar chart titled "JES2 Held Output Display" with y-axis from 0 to 30. Bars: (E)JES Rapid ≈6, (E)JES Slow ≈11, SSI 80 ≈26.

JES3 CPU Performance Quantified

- JES3 benchmarking is slightly more difficult than JES2, because a *significant* amount of SSI 80 processing runs as high-priority work in the JES3 global address space.

- All JES3 activity must be quiesced (so that JES3 is waiting) and its CPU utilization carefully measured.

- Our internal benchmark testing against the most readily-available JES3 SSI 80 exploiter showed it needed 5.4x as much CPU as (E)JES to refresh the JES3 HOLD display.

- This includes both CPU consumed by the TSO user and CPU consumed by the high-priority JES3 address space.

- Rapidity of refreshes makes no difference for JES3.

- Like the previous test, the benchmark was run on an idle 2098-D04 running z/OS 1.13.

JES3 CPU Performance Quantified: 5.4x

JES3 Held Output Display

Performance Differences in Perspective

- The benchmark savings occur using apples-to-apples measurements with TCB-mode only, GCP execution.
- Customers with zIIP processors will observe an entirely different situation.
- Not only does (E)JES use far less CPU than any SSI 80 exploiter, but nearly all of it is eligible for redirection to zIIP.
- In the case of SSI 80, <u>none of the CPU resources are eligible for zIIP redirection</u>—even for customers with zIIP processors available.

```
JobName   CPU-Time ACPU-Time zIIP-Time GCP-Time zICP-Time
--------/-------- --------- --------- -------- ---------
JOEUSER  00:06.15 00:12.20  00:05.94  00:05.94 00:00.00  BEFORE
JOEUSER  00:07.16 00:29.12  00:21.71  00:06.91 00:00.00  AFTER

JOEUSER  00:01.01 00:16.92  00:15.77  00:00.97 00:00.00  DIFFERENCE
```

<u>94% Offload</u>

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Questions?