



# Session: E49

## VSE Hot Topics

John Lawson

**zSeries® EXPO**

**FEATURING Z/OS, Z/VM, Z/VSE  
AND LINUX ON ZSERIES**

September 19 - 23, 2005

San Francisco, CA



# VSE Hot Topics

**John Lawson**



See The Light.™

**1950 Stemmons Frwy.**

**Suite 5001**

**Dallas, Texas 75207**

**Phone: 214-800-8900**

**Email: [info@illustro.com](mailto:info@illustro.com) or <http://www.illustro.com>**





# Trademarks

**The following are trademarks of International Business Machines Corporation**

**IBM  
CICS/VSE  
PL/I VSE  
ESA/390  
z/VM  
z/VSE**

**CICS  
COBOL/VSE  
VSE/ESA  
VTAM  
S/390**

**All other trademarks are trademarks of their respective companies.**



# Objectives

- Provide you with useful VSE tips you can take home and use
- Get you to share your tips with the rest of us

Note: The topics covered in this presentation assume no vendor products are being used, just a standard IBM VSE system



# Automating VSE shutdown

- Use DTRIATTN and MSG commands
  - Undocumented utility to send messages to other partitions

```
// EXEC DTRIATTN,PARM='command'
```

- MSG command supports jobname and DATA parameter

```
MSG CICSICCF,DATA='CEMT P SHUT I'
```

- Not all subsystems support MSG command with DATA parameter
  - CICS/VSE 2.3
  - TCP/IP for VSE/ESA prior to 1.5B



# Automating VSE shutdown...

## DTRIATTN Shutdown Job

```
* $$ JOB JNM=SHUTDOWN,DISP=L,CLASS=0
// JOB SHUTDOWN      SYSTEM SHUTDOWN
// PAUSE SYSTEM WILL BE SHUTDOWN, PRESS ENTER TO CONTINUE OR CANCEL
// EXEC DTRIATTN,PARM='MSG CICSICCF,DATA=CEMT P SHUT'
// EXEC IESWAIT,PARM='05'
// EXEC DTRIATTN,PARM='MSG CICS23'
// EXEC IESWAIT,PARM='05'
// EXEC DTRIATTN,PARM='45 CEMT P SHUT'
// EXEC IESWAIT,PARM='30'
// EXEC DTRIATTN,PARM='MSG TCPIP,DATA=SHUTDOWN'
// EXEC IESWAIT,PARM='30'
// EXEC DTRIATTN,PARM='Z NET,QUICK'
// EXEC IESWAIT,PARM='30'
// EXEC DTRIATTN,PARM='PEND'
/&
* $$ EOJ
```



# Daylight Savings Time Change

- VSE provides for automatic Daylight Savings Time adjustments at IPL
  - SET ZONEDEF
  - SET ZONEBDY
- Add to IPL Proc
  - After ADD statements and before SVA
- At IPL time VSE determines date and adjusts time accordingly



# Daylight Savings Time Change...

## Setting Daylight Savings Time

```
SET ZONEDEF, ZONE=WEST/05/00, CDT
SET ZONEDEF, ZONE=WEST/06/00, CST
SET ZONEBDY, DATE=04/04/2004, CLOCK=02/00/00, CDT
SET ZONEBDY, DATE=10/31/2004, CLOCK=02/00/00, CST
SET ZONEBDY, DATE=04/03/2005, CLOCK=02/00/00, CDT
SET ZONEBDY, DATE=10/30/2005, CLOCK=02/00/00, CST
SET ZONEBDY, DATE=04/02/2006, CLOCK=02/00/00, CDT
SET ZONEBDY, DATE=10/29/2006, CLOCK=02/00/00, CST
SET ZONEBDY, DATE=04/01/2007, CLOCK=02/00/00, CDT
SET ZONEBDY, DATE=10/28/2007, CLOCK=02/00/00, CST
SET ZONEBDY, DATE=04/06/2008, CLOCK=02/00/00, CDT
SET ZONEBDY, DATE=10/26/2008, CLOCK=02/00/00, CST
```





# VSE/POWER

- Little known Autostart commands
  - SET CONFIRM=power-command (2.6)
    - Purpose: Prevent processing of "accidental" commands
      - Could be *very* useful for PDELETE, PEND
    - 1QZ3D PROCESS 'power-command'? CONFIRM WITH 'YES', ELSE 'NO'
    - SET CONFIRM=PDELETE,QUEUE,ALL default
      - DY46169 (2.6), DY46173 (2.7), z/VSE 3.1
    - SET CONFIRM=PRELEASE,QUEUE,ALL
      - DY46150 (2.6), DY46242 (2.7), z/VSE 3.1



# VSE/POWER...

- Little known Autostart commands...
  - SET 1R33D=FLUSH|IGNORE
    - Problem: Incorrect JECL requires operator intervention
      - 1R33D CORRECT FULL STATEMENT task-id
      - *Full* JECL statement must be entered on console
    - FLUSH - job with incorrect JECL flushed
      - Job given DISP=H|L in rdr queue
    - IGNORE - incorrect JECL ignored
      - Job executes as if JECL statement not present
      - Not sure this is a good option



# VSE/POWER...

- Little known Autostart commands...
  - SET NORUN=YES,DYN1=PAUSE
    - Purpose: Prevents active jobs from running following a system failure
      - Active jobs set to DISP=X during startup
        - Use D RDR,CDISP=X to see affected jobs
      - // PAUSE automatically issued for any static with job set to DISP=X and another job dispatchable
      - Dynamic partition support added with DY46114 (2.6), DY46031 (2.7), z/VSE 3.1
    - \* \$\$ JOB NORUN=IGN ignores SET NORUN=YES
      - May be useful for VTAM, CICS, TCP/IP, and ???



# VSE/POWER...

- Little known Autostart commands...
  - SET LONGCMD=power-command
    - Problem: Short forms of VSE/POWER commands are sometimes too easy to enter by mistake
      - L RDR,ALL
      - If SET LONGCMD=PDELETE is used then L will not be accepted
    - Multiple SET LONGCMDS can be used
    - But watch out for short form commands from
      - DTRIATTN job steps
      - User SVC 30 programs
      - Vendor products



# VSE/POWER...

- Little known Autostart commands...
  - SET AUTONAME=FLUSH|HOLD
    - Purpose: Prevent jobs without valid \* \$\$ JOB or // JOB from automatically running
      - Jobs automatically named AUTONAME in rdr queue
      - Without this option jobs set to DISP=D and CLASS=A
    - FLUSH - delete job from rdr queue
    - HOLD - put job in rdr queue with DISP=H
    - 1Q3HI JOB AUTONAME jobnum  
{FLUSHED|HELD} DUE TO 'SET AUTONAME',  
TASK task,cuu



# VSE/POWER...

- New POFFLOAD command options
  - POFFLOAD LOAD|SELECT,xx,xx,HOLD=YES
    - Purpose: Keep dispatchable jobs from running that are loaded from POFFLOAD tape
    - DISP=D jobs changed to DISP=H
    - DISP=K jobs changed to DISP=L
    - DY46152 (2.6), DY46264 (2.7), z/VSE 3.1



# VSE/POWER...

- New POFFLOAD command options...
  - POFFLOAD BACKUP|PICKUP|SAVE  
,XX,XX,JOURNAL=YES|NO
    - Purpose: Create journal listing of offload
    - \$OFLnnnn listing created in POWER LST queue
      - List of entries successfully offloaded
      - Operator offload command with start and end time
      - Tape volumes used
      - Console messages during offload
  - z/VSE 3.1



# VSE/POWER...

- Message suppression
  - PVARV MSG,mmmmi,NOCONS|CONS
    - Purpose: Suppress informational messages that flood console
    - NOCONS – message written to hardcopy file
    - CONS - restores writing message to console
  - PVARV MSG,ALLDISAB,SHOW|CONS
    - SHOW – displays all suppressed messages
    - CON – restores writing all suppressed messages to console





# VSE/POWER...

- Manage queue entries by USER or UINF
  - Valid for PALTER, PDELETE, PDISPLAY, PHOLD, and PRELEASE commands

```
d lst,cjm55,full=yes
AR 0015 1C39I COMMAND PASSED TO VSE/POWER
F1 0001 1R46I LIST QUEUE P D C S PAGES CC FORM B
F1 0001 1R46I CJM55 00725 3 D A 1 1 TO=(JUST) FROM=(JUST)
F1 0001 D=08/10/2002 U='ABCD ' DBGP=000001 L=00000002
F1 0001 QNUM=00808
d lst,cuinf=abcd
AR 0015 1C39I COMMAND PASSED TO VSE/POWER
F1 0001 1R46I LIST QUEUE P D C S PAGES CC FORM B
F1 0001 1R46I CJM55 00725 3 D A 1 1 TO=(JUST) FROM=(JUST)
l lst,cuinf=abcd
AR 0015 1C39I COMMAND PASSED TO VSE/POWER
F1 0001 1R88I OK : 1 ENTRY PROCESSED BY L LST,CUINF=ABCD
```



# VSE/POWER...

- Manage large spool entries (2.7)
  - CPAGE and CCARD parameters
    - PDISPLAY LST,CPAGES>nnnnn
    - PDISPLAY PUN,CCARD>nnnnn
    - Displays RDR,LST,PUN or XMT entries with lines or cards greater than nnnnn
    - Equal (=) and less than (<) criteria also valid
    - Valid for PALTER, PDELETE, PHOLD, and PRELEASE commands



# VSE/POWER...

- Manage large spool entries...
  - PDISPLAY BIGGEST,LIMIT=nn(,LST)
    - Displays up to nn of the largest spool entries
      - All queues
    - LST option sends display output to LST queue
      - LST output jobname \$BIGnnnn



# VSE/POWER...

- Manage queue entries by date
  - PDISPLAY queue, SORT=NEW|OLD, LIMIT=nn
    - Displays up to nn queue entries by creation date
      - NEW – in sequence from newest to oldest
      - OLD – in sequence from oldest to newest
      - All queues
      - DY46375 (2.7), DY46390 (z/VSE 3.1)



# VSE/POWER...

- Cold start no longer required for:
  - Reallocation of POWER Queue file
  - Expanding POWER Data file
  - Changing local PNET node name
- Cold start required for:
  - Changing DBLK or DBLKGP settings
  - Recovery of lost DBLK groups



# VSE/POWER...

- Reallocate Queue file (2.7)
  - Normally requires cold start and reformat
  - Can be reallocated during warm start
    - Controlled by STDLABEL and DTRPOWR changes
      - Change current IJQFILE DLBL to IJQFOLD
      - Change current IJQFILE EXTENT to SYS034
      - Add new DLBL and EXTENT SYS001 for IJQFILE
      - Change ASSGN for SYS001 to SYS034
      - Add ASSGN for SYS001 to volume for new EXTENT
      - Next warm start of POWER reallocates queue file
      - Operator messages to confirm reallocation



# VSE/POWER...

- Expand Data file
  - Normally requires cold start and reformat
  - Can be expanded during warm start
    - Controlled by STDLABEL and DTRPOWR changes
      - Add new EXTENT for IJQFILE to STDLABEL
        - Single new extent only for 2.6 and 2.7
        - Multiple new extents supported in z/VSE 3.1
      - Add new ASSGNs if required to DTRPOWR
      - Next warm start of POWER formats new extents
      - Operator messages to confirm new extents



# VSE/POWER...

- Change local PNET node name (2.7)
  - Normally requires cold start and reformat
  - Can be changed during warm start
    - Update local node name
      - In Network Definition Table (NDT)
      - In SET PNET autostart option
    - Operator message to confirm new local node name
    - Local queue entries change to reflect new node name





# Read-Only DASD Volumes

- How do you share DASD volumes today?
  - ADD cuu,dev-type,SHR with Lock File?
    - Supported, data integrity
    - Potentially lots of I/Os
  - ADD cuu,dev-type with some kind of manual controls?
    - No support or data integrity
    - Significant potential for error!



# Read-Only DASD Volumes...

- How about read-only access built into VSE?
  - Support is in your system right now

```
ADD cuu,dev-type,READ
```

```
ADD 254,ECKD,READ
```

- Not documented

```
volume 254
```

```
AR 0015 CUU CODE DEV.-TYP VOLID USAGE SHARED STATUS CAPACITY
AR 0015 254 6E 3390-3 RWHWRK UNUSED READ ONLY 1113 CYL
AR 0015 1I40I READY
```



# Read-Only DASD Volumes...

- Prefixes MODE SET to each CCW string to inhibit writes
  - Example: IUI dialog to add VSAM space to existing catalog on read-only 3390

```
F2 0014 0P18I C COMM REJCT SYS252=254
      CCSW=0DD0CE39500E00008C CCB=CE396A SK=000080000000
      SNS= 80000000 C6000C01 00000021 00001704 02008B4D 43160F04
           000000E2 0001A302
```

- X'0D' is write key and data



# Undocumented Commands

- List all commands with SIR COMMAND
  - "Documented" - in official IBM SRLs
    - System Control Statements, Diagnostic Tools, etc.
  - "Undocumented"
    - Some are "semi-documented" in Hints and Tips for VSE/ESA document on IBM VSE web site  
<http://www-1.ibm.com/servers/eserver/zseries/os/vse/>
- "Undocumented additional function" in some "documented" commands



# Undocumented Commands...

## Undocumented

<b>ATTN</b>	<b>DOIO</b>	<b>ECHO</b>	<b>EZAAPI</b>	<b>IXFP</b>
<b>LOCATE**</b>	<b>LOCK</b>	<b>MODE</b>	<b>NOAVR</b>	<b>NOASSGN</b>
<b>PFKEY</b>	<b>REIPL</b>	<b>RESUME</b>	<b>SHOW**</b>	<b>SHUT</b>
<b>SIMTAPE</b>	<b>SIM3540</b>	<b>SIR**</b>	<b>SL</b>	<b>STACK**</b>
<b>SUSPEND</b>	<b>TAPE**</b>	<b>TESTMON</b>	<b>TIME</b>	<b>Q...</b>
<b>#CP</b>				

\*\* - partial documentation added to z/VSE 3.1 Guide For Solving Problems

## Additional Function

**VOLUME**



# STACK Command Update

## ■ Review

- Used to
  - Create customized console commands
  - Disable or replace existing console commands
- "Semi-documented" in VSE/ESA Hints and Tips and now in z/VSE 3.1 Guide to Solving Problems
- Can make your life much easier
  - Or more difficult!



# STACK Command Update...

## Command Syntax

STACK

STACK CLEAR

→ STACKP CLEAR

STACK CLEAR=name

→ STACKP CLEAR=name

STACK SHOW

STACK SHOW=name

STACK name | command [ | command] [ | ...] ...

→ STACKP name | command [ | command] [ | ...] ...



# STACK Command Update...

- Changes over time
  - Originally STACK with no parameters deleted entire stack
    - With APAR DY45629 acts like STACK SHOW
  - Originally stack buffer was lost at IPL
    - With APAR DY45629 stack preserved across IPLs
      - On CKD/ECKD only
  - New SLEEP command - SL nnn
    - Provides delay between execution of commands
    - APAR DY45452





# STACK Command Update...

- New: STACKP to preserve stack over IPL
  - Introduced with APAR DY45700
  - Documented in Hints and Tips (July 2002) as PSTACK
    - Shown as STACKP by SIR COMMAND
  - Commands entered with STACK now *not* saved across IPL
    - Doesn't seem to work correctly on 2.6.0 GA level!
- Up to 10 variables can be used
  - &0 through &9



# STACK Command Update...

## Example

```
stack task|msg f2,data=cent i tas
AR 0015 1I40I  READY
stack prty|* priority command has been disabled
AR 0015 1I40I  READY
task
AR 0015 1I40I  READY
AR 0015 MSG F2,DATA=CEMT I TAS ←
AR 0015 1I40I  READY
F2 0120
      Tas(0000023) Tra(CXPB)           Sus Tas Pri( 001 )
      Sta(S ) Use(DBDCCICS) Rec(X'B8116B39A24FCA80') Hty(OPEN_ANY)
      Tas(0000025) Tra(IESO)           Sus Tas Pri( 020 )
      Sta(S ) Use(CICSUSER) Rec(X'B8116B399B259980') Hty(EKCWAIT )
.
.
.
prty
AR 0015 1I40I  READY
AR 0015 * PRIORITY COMMAND HAS BEEN DISABLED ←
```



# STACK Command Update...

## Example

```

stack gv|time|getvis sva|getvis f2
AR 0015 1I40I  READY
gv
AR 0015 1I40I  READY
AR 0015 TIME           ←
AR 0015 TIME IS: 15:35:54 (DST)          DATE 08/12/2002  MONDAY
AR 0015 GETVIS SVA     ←
AR 0015 GETVIS USAGE   SVA-24          SVA-ANY          SVA-24          SVA-ANY
AR 0015  AREA SIZE:    1,824K          8,976K
AR 0015  USED AREA:    1,180K          3,012K MAX. EVER USED:    1,204K          3,040K
AR 0015  FREE AREA:    644K           5,964K LARGEST FREE:    644K           5,320K
AR 0015 1I40I  READY
AR 0015 GETVIS F2     ←
AR 0015 GETVIS USAGE   F2-24          F2-ANY          F2-24          F2-ANY
AR 0015  AREA SIZE:    11,260K         51,196K
AR 0015  USED AREA:    8,712K          37,140K MAX. EVER USED:    11,260K         39,868K
AR 0015  FREE AREA:    2,548K          14,056K LARGEST FREE:    2,528K          13,964K
AR 0015 1I40I  READY

```



# STACK Command Update...

## Example

```
stack gv|time|getvis &0,&1
AR 0015 1I40I  READY
gv f7
AR 0015 1I40I  READY
AR 0015  TIME
AR 0015  TIME IS: 15:44:29 (DST)          DATE 08/12/2002  MONDAY
AR 0015  GETVIS F7
AR 0015  GETVIS USAGE      F7-24      F7-ANY          F7-24      F7-ANY
AR 0015  AREA SIZE:      10,640K      12,688K
AR 0015  USED AREA:      3,348K      5,396K MAX. EVER USED:      10,640K      12,688K
AR 0015  FREE AREA:      7,292K      7,292K LARGEST FREE:      7,104K      7,104K
AR 0015 1I40I  READY
```



# STACK Command Update...

## Example

```

stack dp|d t|sl 1|d q|sl 1|d a|sl 1|d status
AR 0015 1I40I  READY
dp
AR 0015 1I40I  READY
AR 0015 D T      ←
AR 0015 1C39I  COMMAND PASSED TO VSE/POWER
AR 0015 SL 1    ←
F1 0001 1R46I  TIME IS 15:52:52, DATE IS 08/12/2002
F1 0001 1R46I  019 PAGES FIXED, 029 CURRENT TASKS
AR 0015 1I40I  READY
AR 0015 D Q      ←
AR 0015 1C39I  COMMAND PASSED TO VSE/POWER
AR 0015 SL 1    ←
F1 0001 1R49I  QUEUE FILE 014% FULL - 740 FREE QUEUE RECORDS
F1 0001 1R49I  QUEUE FILE EXTENT ON CKD-250, SYS001, 945, 7
.
AR 0015 1I40I  READY
AR 0015 D A      ←
AR 0015 1C39I  COMMAND PASSED TO VSE/POWER
AR 0015 SL 1    ←
F1 0001 1R48I  SAS,00007, SAS=SYSTCP00,
F1 0001 1R48I  SAS,00008, SAS=SYSTCQ00,
.
AR 0015 1I40I  READY
AR 0015 D STATUS ←
AR 0015 1C39I  COMMAND PASSED TO VSE/POWER
F1 0001 1R46I  VSE/POWER 6.6.0 STATUS FOR IPWPOWER ON 08/12/2002 TIME 15/52/55
.

```



# STACK Command Update...

## Example

```
stack cjm1|time|cjm2
AR 0015 1I40I  READY
stack cjm2|pdelete lst,vtam*
AR 0015 1I40I  READY
cjm1
AR 0015 1I40I  READY
AR 0015 TIME           ←
AR 0015 TIME IS: 16:13:16 (DST)          DATE 08/12/2002  MONDAY
AR 0015 CJM2           ←
AR 0015 1I40I  READY
AR 0015 PDELETE LST,VTAM* ←
AR 0015 1C39I  COMMAND PASSED TO VSE/POWER
F1 0001 1R88I  OK : 1 ENTRY PROCESSED BY PDELETE LST,VTAM*
```



# STACK Command Update...

## Example

```
stack show
AR 0015 TASK|MSG F2,DATA=CEMT I TAS
AR 0015 GV|TIME|GETVIS &0
AR 0015 DP|D T|SL 1|D Q|SL 1|D A|SL 1|D STATUS
AR 0015 CJM1|TIME|CJM2
AR 0015 CJM2|PDELETE LST,VTAM*
AR 0015 1I40I  READY
stack clear=dp
AR 0015 1I40I  READY
stack clear=cjml
AR 0015 1I40I  READY
stack show
AR 0015 TASK|MSG F2,DATA=CEMT I TAS
AR 0015 GV|TIME|GETVIS &0
AR 0015 CJM2|PDELETE LST,VTAM*
AR 0015 1I40I  READY
stack clear
AR 0015 1I40I  READY
stack show
AR 0015 1I40I  READY
```



# STACK Command Update...

- Additional information
  - Maximum of 32 entries in buffer
  - Maximum command length 126 characters
  - Can put in BG ASI procedure to automate
    - But STACK command itself not accepted during ASI
    - DTRIATTN
      - PARM limited to 72 bytes
    - SVC 30 program
      - Sample in Hints and Tips document





# STACK Command Update...

- Additional information...
  - STACK STACK|\* to disable the STACK command
    - Keep the operators from changing your stuff?
    - Better be the last STACK command you enter!
  - STACK buffer written on DOSRES Cyl 0 Head 0 Record 4
    - Record key is STACK.DATA.BUFFER



# REIPL Command

- Causes VSE to re-IPL
  - Uses same IPL/JCL procs
  - Should quiesce the system first!
- AR command

```
REIPL [cuu] [NOPROMPT]
```



# REIPL Command...

- APAR DY45452
  - Volser or cuu
  - LOADP now accepted
    - If omitted, existing LOADP used
    - Reset with LOADP= .....
  - If NOPROMPT used it must be last operand

```
REIPL DOSRES , LOADP= . . P , NOPROMPT
```

# Sir Command



```
sir
AR 0015 CPUID VM = 150000F770600000 VSE = FF00000170600000
AR 0015 VM-SYSTEM = VM/ESA (LPAR) 3.1.0 0101
AR 0015 PROCESSOR = IBM 7060-H30 02 USERID = MP3ZVSE
AR 0015 PROC-MODE = ESA IPL(D00) 14:51:10 08/05/2005
AR 0015 SYSTEM = z/VSE 3.1.0 01/31/2005
AR 0015 VSE/AF 7.1.0 VSE31 GA 11/25/2004
AR 0015 VSE/POWER 7.1.0 DY-BASE 11/25/2004
AR 0015 IPL-PROC = $IPLESA JCL-PROC = $$JCL
AR 0015 SUPVR = $$A$SUPI TURBO-DISPATCHER (46) ACTIVE
AR 0015 HARDWARE COMPRESSION ENABLED
AR 0015 SEC. MGR. = BASIC SECURITY = ONLINE
AR 0015 VIRTCPU = 0000:12:40.428 CP = 0000:00:36.583
AR 0015 CPU-ADDR. = 0000(IPL) ACTIVE
AR 0015 ACTIVE = 0000:11:56.051 WAIT = 0218:58:30.990
AR 0015 PARALLEL= 0000:03:36.624 SPIN = 0000:00:00.000
```



# Sir Command...

```
AR 0015 CPU timings MEASUREMENT INTERVAL      0219:11:20.365
AR 0015 TASKS ATT.= 00024          HIGH-MARK = 00025      MAX = 00164
AR 0015 DYN.PARTS = 00001          HIGH-MARK = 00001      MAX = 00048
AR 0015
AR 0015 COPY-BLKS = 00000          HIGH-MARK = 00026      MAX = 00500
AR 0015 CHANQ USED= 00004          HIGH-MARK = 00008      MAX = 00301
AR 0015 LBL.-SEGM.= 00007          HIGH-MARK = 00007      MAX = 00717
AR 0015 PGIN  TOT.= 0000000000     EXP.AVRGE.= 0000000000/SEC
AR 0015 PGOUT TOT.= 0000000000
AR 0015      UNC.= 0000000000     EXP.AVRGE.= 0000000000/SEC
AR 0015      PRE = 0000000000     EXP.AVRGE.= 0000000000/SEC
AR 0015 LOCKS EXT.= 0000000682     LOCKS INT.= 0000008748
AR 0015      FAIL = 0000000018     FAIL = 0000000015
AR 0015 LOCK I/O = 0000000000     LOCK WRITE= 0000000000
```



# Handling System Dumps

- System Dump Library
  - Needs cleaned out regularly
  - Always use for system partitions:
    - CICS, VTAM, POWER, TCPIP, etc.
    - Generally much faster than dumping to VSE/POWER LST queue
    - Formatted dumps for system partitions useful for analysis
  - Generally don't use for batch partitions
    - Programmers want dumps in VSE/POWER queue
    - Partitions are small, dumps don't take long



# Handling Dumps...

- System Dump Library...
  - Implementation
    - In \$0JCL.PROC
      - STDOPT SYSDUMP=NO,DUMP=PART
    - In key partitions (CICS, VTAM, VSE/POWER, etc.)
      - OPTION SYSDUMP,SYSDUMPC,DUMP
        - SYSDUMPC prevents dumping to SYSLST if dump library is full
      - LIBDEF DUMP,CATALOG=SYSDUMP.sublib
    - Remove LIBDEF DUMP commands in other partitions
      - Static partition ASI procs and dynamic class profiles



# Miscellaneous z/VSE items

- Dump Management Dialog
  - Defaults to displaying system dumps in SYSDUMP library
    - Selective display of system dumps by partition
  - Option to process system dumps from dump archive library
  - System dump archive library
    - PRD2.DUMP
    - Options to move system dumps between archive library and SYSDUMP





# Miscellaneous z/VSE items...

- Basic Security Manager
  - Set password controls in startup jobstream
    - EXEC IESIRCVT
      - LENGTH(n) – minimum password length (3-8)
      - WARNING(n) – number of days before issuing password expiration warning (0-9)
      - REVOKE(n) – number of invalid signons before revoking user
        - Overrides setting in IESELOGO
    - User password history now documented
      - Last 12 retained by BSM



# Miscellaneous z/VSE items...

- Basic Security Manager...
  - Define Transaction Security Dialog
    - Option to specify member to include in transaction security definitions
      - DTSECTXM.A with lowercase transids in IJSYSRS.SYSLIB
        - Uses DTSECTXN macro format
      - Could be user supplied member



# Miscellaneous z/VSE items...

- New Environment C install option
  - Large system environment
    - VSIZE=2GB
    - PASIZE=512MB
    - DSPACE=256MB
    - Large Partitions
      - F2 – 256MB
      - F8 – 512MB
      - Batch – 32MB



# Now Its Your Turn

**Anybody got anything  
they want to contribute?**