



Fast Service Upgrade from IBM z/VSE to 21C VSEⁿ 6.3

Shahin Ram Krishna Software Development Engineer, VSEⁿ



Agenda

- Introduction
- Motives
- Considerations
- Tape preparation
- FSU stages
 - Down-level check
 - FSU preparation
 - FSU installation
- Post-Stage 2 Processing
- Conclusion



Introduction

Table 32: Comparing Initial Installation against FSU

	Initial Installation	FSU
Eligible for:	All users	IBM z/VSE 5.2, 6.1, 6.2. and VSE ⁿ users
Requirements:	No special requirements	(see Required Status of Current System)
Hardware configuration:	Must be done	Kept as is
User profiles, selection panels, application profiles:	Must be migrated	Kept as is (only system data on DOSRES and SYSWK1 replaced)
User-specific data:	Access to VSE ⁿ /VSAM data must be re-established VSE ⁿ /ICCF user libraries must be restored	Kept as is For example: System layout, VSE ⁿ /VSAM data, VSE ⁿ /ICCF file, etc. System startup is to be adapted
VSE ⁿ optional programs:	Must be installed	Should be refreshed
Additional 21CSW or non-21CSW programs:	Must be installed	Should be refreshed
User application programs:	Must be re-established (update of VSE ⁿ /VSAM catalogs, OLTP for VSE ⁿ tables, etc.)	Kept as is (recompile may be necessary)
System Modifications:	Possible	(see Restrictions for System Modifications)



Motives

When is FSU possible?

- IBM z/VSE 5.2, 6.1 or 6.2 FSU is possible
- No change of the system disk architecture (DOSRES, SYSWK1)
- An English system language
- No Switch from the 2-digit subarea naming convention to the 4-digit subarea naming convention.



Considerations



General considerations

- Don't modify a members in the ICCF system libraries
- Don't delete the user "AAAA"
- Don't save or copy members of IJSYSRS into PRD2.SAVE
- Don't save your own generated Power phases in PRD2.CONFIG or PRD2.SAVE
- PRD2.SAVE must not contain any phases



Backups

- DOSRES
- SYSWK1



Optional Tasks

- To refresh the generation features they must be previously installed
- Install any optional programs you have

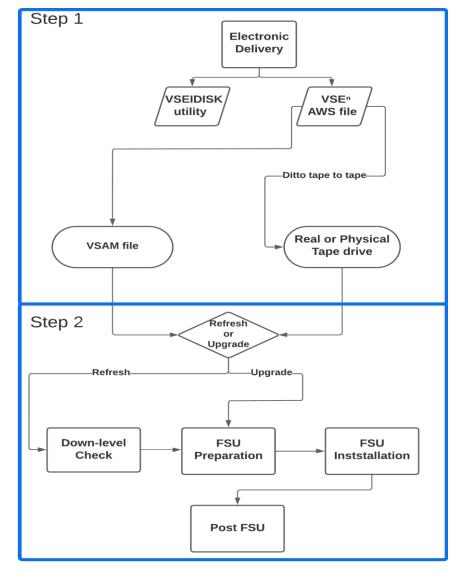


FSU Processing and Space Requirements

- Library structure: IJSYSRS.SYSLIB, PRD1.*, PRD2.CONFIG,
 PRD2.SAVE, PRD2.SCEEBASE, PRD2.TCPIPC, PRD2.TCPIPB
- System volumes must be DOSRES and SYSWK1
- The Master and User catalog must be available
- From IBM z/VSE 5.2 migrate DTSECTXN to the BSM control file
- Check if there is enough VSAM space available



Tape preparation





Prepare FSU from a real tape

- Connection to a tape library
- Copy the tape image into a volume
- Mount the volume with LIBSERV



Prepare FSU from a VSAM Virtual Tape File

- Need LFP or TCPIP
- Define two tape units with the type 3490E (for SKVTACPY)
- Define VSAM space in the user catalog
- Connector Tool: VTAPE Server up and running
- Create a virtual tape file with SKVTAPE in ICCF 59
- Use SKVTASTJ in ICCF 59 to catalog TAPESRVR and LDVTA, then load TAPESRVR.



Prepare FSU from a VSAM Virtual Tape File (Contd.)

Now we can transfer the tape image into a VSAM file with one of the following methods:

- Using FTP with TCPIP
- Using LFP and DITTO tape to tape
- Using IND\$FILE transfer to a host transfer file (not recommended)



FSU Stages

- 1. Down-level Check
- 2. FSU Preparation
- 3. FSU Installation



Down-level Check

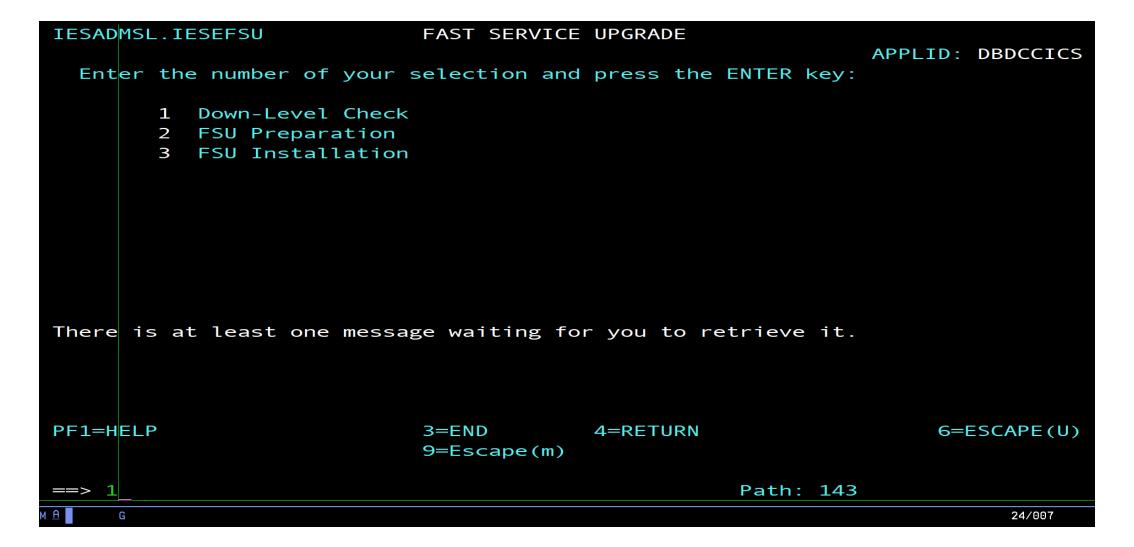
Version or Release Upgrade	Service Refresh
Do not perform a downlevel check	Perform a down-level check Your current system status is checked and compared with the refresh level. This step does not change your system.

- IJSYSRS.SYSLIB
- PRD1.BASE PRD1.MACLIB
- PRD2.SCEEBASE PRD2.GEN1 PRD2.TCPIPC PRD2.TCPIPB











SRV\$FSØ1	FAST SE	RVICE	UPGRADE
Enter the required data and	press E	NTER.	
TAPE UNIT ADDRESS	. 181		For a list of valid addresses see HELP
VIRTUAL TAPE	. 1		Enter 1 if FSU is to be done from virtual (VSAM) tape, enter 2 if a real tape is used.
			Virtual tape is only possible if the installation tape is loaded to VSAM. If virtual tape is selected, enter the VSAM file name:
VSAM FILE NAME	. VTAPE1		Unique name of the VSAM file
PF1=HELP 2=REDISPLAY	3=END		
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SUB\$PR05	JOB DISPO	SITION
Enter the required data and p	ress ENTER.	
JOB DESTINATION	3	Enter 1 to submit the job to batch. Enter 2 to file in library. Enter 3 to do both.
JOB NAME	DOWNLVL	The name under which the job will be saved in VSEn/ICCF.
PRIORITY	9	Priority 0-9 for this job.
CLASS		Changing * has no effect.
DISPOSITION	D	D,H,K or L. Changing * has no effect.
JOB ACCOUNTING		
HOLD LIST IN QUEUE	2	Enter 1 to hold output in list queue. Enter 2 to print output immediately
TIME EVENT SCHEDULING	2	Enter 1 if TIME EVENT SCHEDULING required, otherwise enter 2.
OTHER PARAMETERS	2	Enter 1 to change any other POWER JOB parameters, otherwise enter 2.
PF1=HELP 2=REDISPLAY 3	B=END	
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```
SYSTEM:
         VSEn
                             VSEn 6.3
                                               TURBO (01)
                                                                USER:
                                                                        SYS
                                                                 TIME:
                                                                        10:11:41
BG 0000 1YM3I
             TAPE DATA HANDLER INITIALIZATION IN PROGRESS
AR 0015 1C39I COMMAND PASSED TO VSEn/POWER
F1 0001 1R88I OK : 1 ENTRY PROCESSED BY PRELEASE RDR, TAPESRVR
R1 0001 1Q47I
             R1 TAPESRVR 00272 FROM (SYSA) , TIME=10:05:16, LOG=NO,
        TKN=00000028
R1 0045 ID (PARAMETERS SUPPRESSED)
BG 0000 1YM4I TAPE DATA HANDLER INITIALIZATION COMPLETED
BG 0000 1YM6I TAPE DATA HANDLER ACCESSED SPECIFIED FILE SUCCESSFULLY
BG-0000 // PAUSE VIRTUAL TAPE READY?
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                                     SCROLL: 1
                           PAUSE: 01
                                                                 CONSOLE
                                                          MODE:
                                                                         20/007
```



```
SYSTEM:
        VSEn
                           VSEn 6.3
                                             TURBO (01)
                                                              USER:
                                                                     SYS
                                                              TIME:
                                                                    10:24:12
BG 0000 * ---
BG 0000 *
                  DOWNLEVEL CHECK FOR IPV6 LIBRARY PRD2.TCPIPB
BG 0000 *
BG 0000 * ** SAVE THE LISTING OF THE DOWNLEVEL DELTA, BECAUSE **
BG 0000 *
                  YOU HAVE TO REAPPLY THIS SERVICE AFTER FSU.
BG 0000 * ----
BG 0000 4A87I AUTOMATIC CLOSE HAS BEEN STARTED
BG 0000 4A88I AUTOMATIC CLOSE FOR 1 FILE(S) COMPLETED
BG 0000 * VIRTUAL TAPE 181 IS RELEASED
BG 0000 EOJ DOWNLVL MAX.RETURN CODE=0000
       DATE 06/13/2022, CLOCK 10/12/32, DURATION
                                                  00/07/17
BG 0001 1034I BG WAITING FOR WORK
R1 0001 1QC7I R1 TAPESRVR 00272 FROM (SYSA) , TIME=10:13:02 COMPLETE
==>
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
                          PAUSE: 01 SCROLL: 1
ACT MSG: HOLDRUN
                                                        MODE: CONSOLE
                                                                      20/006
```



FSU Preparation

Version or Release Upgrade	Service Refresh
Perform the FSU preparation A job stream is created which restores the latest level of the FSU function from tape. In this case, it is the FSU function from the new VSE ⁿ system.	Perform the FSU preparation A job stream is created which restores the latest level of the FSU function from tape.

- 1. DTRSTFSU: Builds the Job Manager environment.
- 2. DTRFSU02: Loads the FSU program into IJSYSRS.SYSLIB.
- 3. DTRFSU03: Loads FSU skeletons into VSEⁿ/ICCF library.
- 4. DTRFSU04: Job Manager Environment clean up
- 5. DTRCLFSU: Does a final clean up, and connect the DTSFILE

Do not run the FSU Installation dialog until these jobs have completed











SRV\$FS01	FAST S	ERVICE	UPGRADE
Enter the required data and	press	ENTER.	
TAPE UNIT ADDRESS	. 181		For a list of valid addresses see HELP
VIRTUAL TAPE	. 1		Enter 1 if FSU is to be done from virtual (VSAM) tape, enter 2 if a real tape is used.
			Virtual tape is only possible if the installation tape is loaded to VSAM. If virtual tape is selected, enter the VSAM file name:
VSAM FILE NAME	. VTAPE	1	Unique name of the VSAM file
PF1=HELP 2=REDISPLAY	3=END		
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SUB\$PR05	JOB DISPOSITION
Enter the required data and p	ress ENTER.
JOB DESTINATION	Enter 1 to submit the job to batch.
	Enter 2 to file in library. Enter 3 to do both.
JOB NAME	FSUPREP The name under which the job will be saved in VSE/ICCF.
PRIORITY	9 Priority 0-9 for this job.
CLASS	O Changing * has no effect.
DISPOSITION	* D,H,K or L. Changing * has no effect.
HOLD LIST IN QUEUE	Enter 1 to hold output in list queue. Enter 2 to print output immediately
TIME EVENT SCHEDULING	
OTHER PARAMETERS	
PF1=HELP 2=REDISPLAY 3	=END
A JOB MANAGED SEQUENCE IS GE	NERATED => JOBNAME-PREFIX "DTR" IS USED
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```
SYSTEM:
                             z/VSE 6.2
         z/VSE
                                                TURBO (01)
                                                                  USER:
                                                                         SYS
                                                                  TIME:
                                                                         10:44:37
R1 0045 * // OPTION SVABUF=YES
R1 0045 * // OPTION LRGBUF=YES
BG 0000 1YM4I
              TAPE DATA HANDLER INITIALIZATION COMPLETED
              TAPE DATA HANDLER ACCESSED SPECIFIED FILE SUCCESSFULLY
BG-0000 // PAUSE
                  VIRTUAL TAPE READY?
___
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01
                                      SCROLL: 1
                                                           MODE:
                                                                   CONSOLE
                                                                          20/006
```



```
SYSTEM:
         z/VSE
                              z/VSE 6.2
                                                 TURBO (01)
                                                                   USER:
                                                                          SYS
                                                                   TIME:
                                                                          10:48:29
BG-0000 // PAUSE
==> /DISCONN DTSFILE
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                            PAUSE: 01
                                       SCROLL: 1
                                                            MODE:
                                                                    CONSOLE
                                                                            20/006
```



```
SYSTEM:
         z/VSE
                             z/VSE 6.2
                                                TURBO (01)
                                                                  USER:
                                                                         SYS
                                                                  TIME:
                                                                         10:50:22
BG-0000 // PAUSE
/DISCONN DTSFILE
AR 0015 1C39I COMMAND PASSED TO VSE/ICCF
F2 0126 K131I DTSFILE IS DISCONNECTED
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01 SCROLL: 1
                                                           MODE:
                                                                   CONSOLE
                                                                          20/007
```



```
SYSTEM:
         z/VSE
                             z/VSE 6.2
                                               TURBO (01)
                                                                 USER:
                                                                        SYS
                                                                 TIME:
                                                                        10:54:06
BG 0000 *
              ***** NOW YOU CAN PERFORM FSU INSTALLATION
BG 0000 *
                      PRESS ENTER TO CONTINUE
BG 0000 *
BG-0000 // PAUSE
R1 0001 1QC7I R1 TAPESRVR 00200 FROM (SYSA) , TIME=10:52:51 COMPLETE
==> /CONN DTSFILE
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01
                                      SCROLL: 1
                                                          MODE:
                                                                  CONSOLE
                                                                          20/006
```



```
SYSTEM:
        z/VSE
                            z/VSE 6.2
                                              TURBO (01)
                                                                USER:
                                                                       SYS
                                                                TIME:
                                                                       10:55:49
BG 0000 *
BG 0000 *
             ***** NOW YOU CAN PERFORM FSU INSTALLATION
BG 0000 *
                     PRESS ENTER TO CONTINUE
BG 0000 *
BG-0000 // PAUSE
R1 0001 1QC7I R1 TAPESRVR 00200 FROM (SYSA) , TIME=10:52:51 COMPLETE
/CONN DTSFILE
AR 0015 1C39I COMMAND PASSED TO VSE/ICCF
F2 0126 K001I DEVICE TYPE IS ECKD
F2 0126 K088I HI FILE RECORDS=
                                   740,371 (84%)
F2 0126 K019I ICCF LIBRARY TEMPORARY AREAS NOT FREED
F2 0126 K129I DTSFILE IS CONNECTED
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                          PAUSE: 01 SCROLL: 1
                                                                 CONSOLE
                                                         MODE:
                                                                        20/007
```



```
SYSTEM: z/VSE
                            z/VSE 6.2
                                              TURBO (01)
                                                               USER:
                                                                      SYS
                                                               TIME:
                                                                      11:35:07
BG 0000 *
BG 0000 *
            ***** NOW YOU CAN PERFORM FSU INSTALLATION
BG 0000 *
              ***** PRESS ENTER TO CONTINUE
BG 0000 *
BG-0000 // PAUSE
R1 0001 1QC7I R1 TAPESRVR 00200 FROM (SYSA) , TIME=10:52:51 COMPLETE
/CONN DTSFILE
AR 0015 1C39I COMMAND PASSED TO VSE/ICCF
F2 0126 K001I DEVICE TYPE IS ECKD
F2 0126 K088I HI FILE RECORDS= 740,371 (84%)
F2 0126 K019I ICCF LIBRARY TEMPORARY AREAS NOT FREED
F2 0126 K129I DTSFILE IS CONNECTED
0
BG 0000 EOJ DTRCLFSU MAX.RETURN CODE=0000
        DATE 06/13/2022, CLOCK 11/34/51, DURATION 00/42/30
BG 0001 1034I BG WAITING FOR WORK
==>
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                          PAUSE: 01 SCROLL: 1
                                                         MODE:
                                                                CONSOLE
                                                                        20/006
```



FSU Installation

Version or Release Upgrade	Service Refresh
Perform the FSU installation Your system is replaced by the new VSE ⁿ version.	Perform the FSU installation Your system is replaced by the new service refresh.

FSU installation consist of two stages:

Stage 1: running From DOSRES

Stage 2: running From SYSWK1



FSU Installation (Contd.)

```
IESADMSL.IESEFSU
                            FAST SERVICE UPGRADE
                                                               APPLID: DBDCCICS
  Enter the number of your selection and press the ENTER key:
           Down-Level Check
        2 FSU Preparation
          FSU Installation
There is at least one message waiting for you to retrieve it.
PF1=HELP
                            3=END
                                         4=RETURN
                                                                    6=ESCAPE(U)
                            9=Escape(m)
JOB HAS BEEN SUBMITTED AND FILED AS FSUPREP .
                                                     Path: 143
                                                                          24/007
```



FSU Installation (Contd.)

SRV\$FS02	FAST SERVICE	UPGRADE
Enter the required data and	press ENTER.	
TAPE UNIT ADDRESS	181	For valid addresses see HELP
Enter 1 if FSU is to be do	one from virtu	ual tape, else enter 2 for real
VIRTUAL TAPE		FSU from virtual (VSAM) tape?
<pre>If virtual tape is selected, VSAM FILE NAME</pre>		Unique name of the VSAM file
Enter 1 for YES and 2 for NO	to the follow	wing questions.
REORGANIZE DTSFILE		Do you want to reorganize DTSFILE ?
BACKUP LIBRARIES		Do you want to backup base libraries?
BACKUP DTSFILE		Do you want to backup the DTSFILE?
OWN POWER PARAMETERS		Do you have your own POWER parameters (Phase, Partition allocs, Partition size, or PFIX value) ?
PF1=HELP 2=REDISPLAY	3=END	
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FSU Installation (Contd.)

SUB\$PR05	JOB DISPOSITION
Enter the required data and p	press ENTER.
JOB DESTINATION	Enter 1 to submit the job to batch. Enter 2 to file in library. Enter 3 to do both.
JOB NAME	DTRFSU The name under which the job will be saved in VSE/ICCF.
PRIORITY	9 Priority 0-9 for this job.
CLASS	
DISPOSITION	* D,H,K or L. Changing * has no effect.
HOLD LIST IN QUEUE	
TIME EVENT SCHEDULING	
OTHER PARAMETERS	
PF1=HELP 2=REDISPLAY 3	3=END
A JOB MANAGED SEQUENCE IS GE	ENERATED => JOBNAME-PREFIX "DTR" IS USED
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Stage 1

- Installs IJSYSR1.SYSLIB (base code and NLS) to SYSWK1 and PRD1.MACLIB
- Optionally, the generation feature into PRD2.GEN1



```
SYSTEM:
        z/VSE
                            z/VSE 6.2
                                              TURBO (01)
                                                               USER:
                                                                      SYS
                                                                TIME:
                                                                      12:49:44
                        - BACKUP HISTORY FILE
BG 0000 *
BG 0000 *
BG 0000 * 1. REPLY "CANCEL (END/ENTER)" TO CANCEL THIS JOB.
BG 0000 *
           2. MAKE SURE THAT NO OTHER JOB STILL NEEDS THE WORK HISTORY FILE
BG 0000 *
           3. RELEASE THE JOB:DTRSTFSU AGAIN (R RDR,DTRSTFSU)
BG 0000 *
BG 0000 *
                                --- OR ---
BG 0000 *
BG 0000 *
           REPLY "(END/ENTER)" AT THE FOLLOWING PAUSE-STATEMENT TO
BG 0000 *
           CONTINUE THIS JOB
BG 0000 *
BG 0000 * NOTE: THIS WILL CAUSE THE INFORMATION STORED IN THE WORK HISTORY
BG 0000 *
                 FILE TO BE LOST.
BG 0000 * ----
BG-0000 // PAUSE
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTR\
ACT MSG: HOLDRUN
                          PAUSE: 01 SCROLL: 1
                                                         MODE:
                                                                CONSOLE
                                                                        20/007
```



```
SYSTEM: z/VSE
                           z/VSE 6.2
                                             TURBO (01)
                                                             USER:
                                                                    SYS
                                                                    12:50:32
                                                             TIME:
BG 0000 EOJ DTRSTFSU MAX.RETURN CODE=0004
       DATE 06/13/2022, CLOCK 12/50/31, DURATION 00/22/01
BG 0001 1Q47I BG DTRFSU14 00216 FROM (SYSA) , TIME=12:50:31 , TKN=0000060
BG 0000 // JOB DTRFSU14
       DATE 06/13/2022, CLOCK 12/50/31
BG 0000 * ----
BG 0000 * FSU STAGE I
BG 0000 * THIS FAST SERVICE UPGRADE IS
BG 0000 *
               FROM Z/VSE 6.2 TO VSEn 6.3
BG 0000 * IF ABOVE UPGRADE IS NOT EXPECTED, YOU MAY HAVE MISSED TO RUN
BG 0000 * THE PREPARATION STEP.
BG 0000 * REPLY "(END/ENTER)" TO CONTINUE THE UPGRADE, OR CANCEL
BG 0000 * THE JOB AND RERUN THE PREPARATION STEP.
BG-0000 // PAUSE
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                         PAUSE: 01 SCROLL: 1
                                                       MODE:
                                                              CONSOLE
                                                                     20/007
```



```
SYSTEM:
        z/VSE
                            z/VSE 6.2
                                              TURBO (01)
                                                               USER:
                                                                      SYS
                                                               TIME:
                                                                      12:52:17
BG 0000 *
            SAVE THE LISTING OF THE DOWNLEVEL DELTA, BECAUSE
BG 0000 *
                     YOU HAVE TO REAPPLY THIS SERVICE.
BG 0000 * ----
BG 0000 * TAPE DRIVE 181 IS RELEASED
BG 0000 1YM3I TAPE DATA HANDLER INITIALIZATION IN PROGRESS
AR 0015 1C39I COMMAND PASSED TO VSE/POWER
F1 0001 1R88I OK: 1 ENTRY PROCESSED BY PRELEASE RDR, TAPESRVR
R1 0001 1047I R1 TAPESRVR 00234 FROM (SYSA) , TIME=12:52:16, LOG=NO,
        TKN=00000028
R1 0045 ID (PARAMETERS SUPPRESSED)
BG 0000 1YM4I TAPE DATA HANDLER INITIALIZATION COMPLETED
BG 0000 1YM6I TAPE DATA HANDLER ACCESSED SPECIFIED FILE SUCCESSFULLY
BG-0000 // PAUSE VIRTUAL TAPE READY?
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTR\
ACT MSG: HOLDRUN
                          PAUSE: 01 SCROLL: 1
                                                         MODE:
                                                                CONSOLE
                                                                        20/007
```



```
z/VSE 6.2
SYSTEM:
         z/VSE
                                                TURBO (01)
                                                                  USER:
                                                                         SYS
                                                                  TIME:
                                                                         12:52:59
BG 0000
               IJSYSR1
                                   INTO
                                          IJSYSR1
BG-0000 M249D ENTER "GO" TO CONTINUE OR "CANCEL" TO TERMINATE
==> 0 go
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT_MSG: HOLDRUN
                           PAUSE: 01 SCROLL: 1
                                                            MODE:
                                                                   CONSOLE
                                                                           20/010
```



```
SYSTEM:
        z/VSE
                            z/VSE 6.2
                                               TURBO (01)
                                                               USER:
                                                                       SYS
VM USER ID:PTHVSE18
                                                                TIME:
                                                                      12:53:49
BG 0000 * ARE AVAILABLE, LABELS ARE DELETED AND ADDED AGAIN WITH
BG 0000 * SYSTEM DEFAULT VALUES. THIS AVOIDS PROBLEMS WITH WORKFILES
BG 0000 * DEFINED ON VIRTUAL DISKS.
BG 0000 *
BG 0000
BG-0000 // PAUSE
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                          PAUSE: 01 SCROLL: 1
                                                         MODE:
                                                                 CONSOLE
                                                                        20/007
```



```
SYSTEM: z/VSE
                            z/VSE 6.2
                                             TURBO (01)
                                                              USER:
                                                                    SYS
                                                              TIME:
                                                                    12:54:23
BG 0000 * ARE AVAILABLE, LABELS ARE DELETED AND ADDED AGAIN WITH
BG 0000 * SYSTEM DEFAULT VALUES. THIS AVOIDS PROBLEMS WITH WORKFILES
BG 0000 * DEFINED ON VIRTUAL DISKS.
BG 0000 *
BG 0000 * ----
BG-0000 // PAUSE
R1 0001 1QC7I R1 TAPESRVR 00234 FROM (SYSA) , TIME=12:54:04 COMPLETE
Ø
BG 0000 EOJ DTRCLFSU MAX.RETURN CODE=0000
       DATE 06/13/2022, CLOCK 12/54/23, DURATION 00/00/47
BG 0001 1Q34I BG WAITING FOR WORK
==> msg f2,data=cemt p shut i
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
                          PAUSE: 01 SCROLL: 1
                                                        MODE:
ACT MSG: HOLDRUN
                                                               CONSOLE
                                                                      20/031
```



```
SYSTEM: z/VSE
                            z/VSE 6.2
                                               TURBO (01)
                                                                USER:
                                                                       SYS
                                                                TIME:
                                                                       12:56:02
F2 0126 K125I ICCF HAS BEEN TERMINATED
F3 0003 IST804I CLOSE IN PROGRESS FOR DBDCCICS OPENED BY DFHEVID1
F3 0003 IST400I TERMINATION IN PROGRESS FOR APPLID DBDCCICS
F3 0003 IST805I VTAM CLOSE COMPLETE FOR DBDCCICS
F2 0002 DFHDU0303I DBDCCICS Transaction Dump Data set DFHDMPA closed.
F2 0002 DFHKE1799 DBDCCICS TERMINATION OF CICS IS COMPLETE.
F2 0002 4A87I AUTOMATIC CLOSE HAS BEEN STARTED
F2 0002 4A88I AUTOMATIC CLOSE FOR 8 FILE(S) COMPLETED
F2 0002 E0J CICSICCF MAX.RETURN CODE=0000
        DATE 06/13/2022, CLOCK 12/56/01, DURATION 02/59/57
F2 0001 104DI JOB CICSICCF 00180 FINISHED PROCESSING IN PARTITION F2
F2 0001 1034I F2 WAITING FOR WORK
==> z net q
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01 SCROLL: 1
                                                          MODE:
                                                                 CONSOLE
                                                                        20/013
```



```
SYSTEM:
                             z/VSE 6.2
        z/VSE
                                               TURBO (01)
                                                                USER:
                                                                        SYS
                                                                 TIME:
                                                                        12:56:48
F3 0003 IST105I VTMCA2 NODE NOW INACTIVE
F3 0003 IST105I VTMCA3 NODE NOW INACTIVE
F3 0003 IST105I ISTGROUP NODE NOW INACTIVE
F3 0003 IST412I VTAM COMMAND PROCESSING TERMINATED
F3 0003 IST984I USER EXIT ISTEXCSD IS INACTIVE
F3 0003 IST102I VTAM IS NOW INACTIVE
F3 0003 E0J VTAMSTRT MAX.RETURN CODE=0000
        DATE 06/13/2022, CLOCK 12/56/48, DURATION
                                                    03/00/47
F3 0001 1Q34I
                F3 WAITING FOR WORK
==> pend
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01 SCROLL: 1
                                                          MODE:
                                                                 CONSOLE
                                        î
                                                                         20/010
```



```
SYSTEM:
         z/VSE
                             z/VSE 6.2
                                               TURBO (01)
                                                                USER:
                                                                       SYS
                                                                TIME:
                                                                       13:00:19
F3-0003 1100D READY FOR COMMUNICATIONS.
F7-0007 1I00D READY FOR COMMUNICATIONS.
F2-0002 1I00D READY FOR COMMUNICATIONS.
F4-0004 1I00D READY FOR COMMUNICATIONS.
F5-0005 1I00D READY FOR COMMUNICATIONS.
F6-0006 1100D READY FOR COMMUNICATIONS.
F8-0008 1I00D
              READY FOR COMMUNICATIONS.
F9-0009 1I00D
              READY FOR COMMUNICATIONS.
FA-0010 1100D READY FOR COMMUNICATIONS.
BG-0000 1I00D READY FOR COMMUNICATIONS.
        DATE 06/13/2022. CLOCK 13/00/11. DURATION
                                                    00/01/01
F1-0001 1C10D PLEASE ASSIGN SYSRDR.
FB 0011 1N90I
               EOP WAS FORCED BY EOJ
FB 0011 EOJ SECSERV
                      MAX.RETURN CODE=0099
        DATE 06/13/2022, CLOCK 13/00/11, DURATION
                                                    00/01/01
FB-0011 1C10D PLEASE ASSIGN SYSRDR.
==> REIPL 241,L0ADP=..P
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                                      SCROLL: 1
                           PAUSE: 01
                                                          MODE:
                                                                 CONSOLE
                                                                         20/025
```

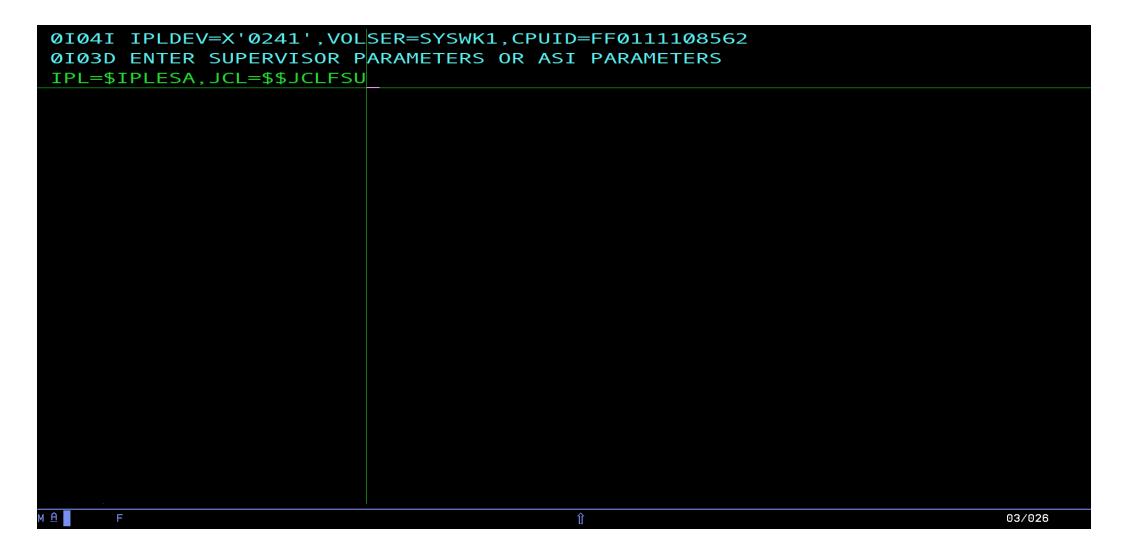


Stage 2

- Restores DTSFILEs (base and NLS)
- Installs LE into PRD2.SCEEBASE
- Installs PRD1.BASE products
- Restores the OME
- Refreshes IESTRFL, updates CSD file
- Copies back IJSYSR1, updates refresh level in history file
- Copies back work history file and changes residence information
- Starts basic OLTP and VCDD for first steps on new level.



Continued





```
SYSTEM:
         VSEn
                              VSEn 6.3
                                                TURBO (01)
                                                                  USER:
                                                                         SYS
                                                                  TIME:
                                                                         13:14:37
F1 0001 1Q0HI
               CURRENT LEVEL V9R5 OF VSEN/POWER DIFFERENT FROM LEVEL V9R4 OF
        QUEUE STARTING WARM
F1-0001 1Q0HD IF SPOOL FILE MIGRATION TO V9R5 IS INTENDED REPLY 'YES', ELSE
        ' NO '
==>1 yes
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT_MSG: HOLDRUN
                            PAUSE: 01
                                       SCROLL: 1
                                                            MODE:
                                                                   CONSOLE
                                                                           20/011
```



```
SYSTEM:
         VSEn
                             VSEn 6.3
                                                TURBO (01)
                                                                  USER:
                                                                         SYS
                                                                  TIME:
                                                                         13:18:10
F1 0001 1Q0HI
               CURRENT LEVEL V9R5 OF VSEN/POWER DIFFERENT FROM LEVEL V9R4 OF
        QUEUE STARTING WARM
F1-0001 1Q0HD IF SPOOL FILE MIGRATION TO V9R5 IS INTENDED REPLY 'YES', ELSE
        ' NO '
1 yes
F1-0001 1QFFD VSEN/POWER WARMSTART AND VSEN ACCESS CONTROL NOT
        ACTIVATED(SEC=NO). DO YOU WISH TO CONTINUE? (YES/NO)
==> 1 yes
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
                           PAUSE: 01 SCROLL: 1
ACT MSG: HOLDRUN
                                                           MODE:
                                                                   CONSOLE
                                                                          20/011
```



```
SYSTEM:
        VSEn
                            VSEn 6.3
                                              TURBO (01)
                                                               USER:
                                                                      SYS
                                                                      13:19:13
                                                               TIME:
             VIRTUAL TAPE SPECIFIED, ON ADDRESS
BG 0000 *
BG 0000 *
                          181
BG 0000 * INSTALLATION TAPE VSEn6.X.X-YY STILL LOADED
BG 0000 *
             ON FILE VTAPE1 ?
BG 0000 * -----
BG 0000 * TAPE DRIVE 181 IS RELEASED
BG 0000 1YM3I TAPE DATA HANDLER INITIALIZATION IN PROGRESS
AR 0015 1C39I COMMAND PASSED TO VSEn/POWER
F1 0001 1R88I OK : 1 ENTRY PROCESSED BY PRELEASE RDR, TAPESRVR
R1 0001 1Q47I R1 TAPESRVR 00278 FROM (SYSA) , TIME=13:19:10, LOG=NO,
        TKN=0000003A
R1 0045 * // OPTION SVABUF=YES
R1 0045 * // OPTION LRGBUF=YES
BG 0000 1YM4I TAPE DATA HANDLER INITIALIZATION COMPLETED
BG 0000 1YM6I TAPE DATA HANDLER ACCESSED SPECIFIED FILE SUCCESSFULLY
BG-0000 // PAUSE VIRTUAL TAPE READY?
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                          PAUSE: 01 SCROLL: 1
                                                         MODE:
                                                                CONSOLE
                                                                        20/007
```



```
SYSTEM:
        VSEn
                            VSEn 6.3
                                              TURBO (01)
                                                              USER:
                                                                     SYS
                                                              TIME:
                                                                     13:22:43
                5. RE-IPL FROM DOSRES (IJSYSRS) USING 'REIPL CUU, LOADP=...'
BG 0000 *
BG 0000 *
                   COMMAND.
BG 0000 *
                6. REBUILD THE STAND ALONE DUMP DEVICE (TAPE OR DISK).
BG 0000 * ----
BG-0000 // PAUSE
R1 0001 1QC7I R1 TAPESRVR 00278 FROM (SYSA) , TIME=13:22:43 COMPLETE
==> 0
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                          PAUSE: 01 SCROLL: 1
                                                               CONSOLE
                                                        MODE:
                                                                       20/007
```



```
SYSTEM:
         VSEn
                             VSEn 6.3
                                                TURBO (01)
                                                                 USER:
                                                                         SYS
                                                                 TIME:
                                                                        13:25:20
BG 0000
        * USE, DUPLICATION OR DISCLOSURE
BG 0000
        * RESTRICTED BY
BG 0000
        * GSA ADP SCHEDULE CONTRACT WITH IBM CORP.
BG 0000
        * 2121-VN6 (C) COPYRIGHT
BG 0000
           21ST CENTURY SOFTWARE, INC. 2022
BG 0000
BG 0000
          START MODE FOR BG-PARTITION IS BASIC
BG-0000 IESI0065D IS THE LOCAL CONTROL UNIT AN SNA CU? YES/NO
==> 0 no
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01
                                      SCROLL: 1
                                                                  CONSOLE
                                                           MODE:
                                                                          20/010
```



```
SYSTEM:
                             VSEn 6.3
                                               TURBO (01)
                                                                        SYS
         VSEn
                                                                 USER:
                                                                 TIME:
                                                                        13:25:51
BG 0000 * USE, DUPLICATION OR DISCLOSURE
BG 0000 * RESTRICTED BY
BG 0000 * GSA ADP SCHEDULE CONTRACT WITH IBM CORP.
BG 0000 * 2121-VN6 (C) COPYRIGHT
BG 0000 *
          21ST CENTURY SOFTWARE, INC. 2022
BG 0000 *
BG 0000 *
          START MODE FOR BG-PARTITION IS BASIC
BG-0000 IESI0065D IS THE LOCAL CONTROL UNIT AN SNA CU? YES/NO
0 no
BG 0000 IESI0064I DEFINE UP TO 3 LOCAL VCDD TERMINALS
BG-0000 IESI0059D ENTER A 3270 ADDRESS (PCUU) OR "END"
==> 0 080
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01 SCROLL: 1
                                                           MODE:
                                                                  CONSOLE
                                        î
                                                                          20/011
```



```
SYSTEM:
         VSEn
                             VSEn 6.3
                                               TURBO (01)
                                                                        SYS
                                                                 USER:
                                                                 TIME:
                                                                        13:26:21
BG 0000 * USE, DUPLICATION OR DISCLOSURE
BG 0000 * RESTRICTED BY
BG 0000 * GSA ADP SCHEDULE CONTRACT WITH IBM CORP.
BG 0000 * 2121-VN6 (C) COPYRIGHT
BG 0000 *
         21ST CENTURY SOFTWARE, INC. 2022
BG 0000 *
BG 0000 * START MODE FOR BG-PARTITION IS BASIC
BG-0000 IESI0065D IS THE LOCAL CONTROL UNIT AN SNA CU? YES/NO
0 no
BG 0000 IESI0064I DEFINE UP TO 3 LOCAL VCDD TERMINALS
BG-0000 IESI0059D ENTER A 3270 ADDRESS (PCUU) OR "END"
0 080
BG-0000 IESI0059D ENTER A 3270 ADDRESS (PCUU) OR "END"
==> 0 081
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01 SCROLL: 1
                                                           MODE:
                                                                  CONSOLE
                                                                          20/011
```



```
SYSTEM:
         VSEn
                             VSEn 6.3
                                               TURBO (01)
                                                                 USER:
                                                                        SYS
                                                                 TIME:
                                                                        13:26:56
BG 0000 * USE, DUPLICATION OR DISCLOSURE
BG 0000 * RESTRICTED BY
BG 0000 * GSA ADP SCHEDULE CONTRACT WITH IBM CORP.
BG 0000 * 2121-VN6 (C) COPYRIGHT
BG 0000 * 21ST CENTURY SOFTWARE, INC. 2022
BG 0000 *
BG 0000 * START MODE FOR BG-PARTITION IS BASIC
BG-0000 IESI0065D IS THE LOCAL CONTROL UNIT AN SNA CU? YES/NO
0 no
BG 0000 IESI0064I DEFINE UP TO 3 LOCAL VCDD TERMINALS
BG-0000 IESI0059D ENTER A 3270 ADDRESS (PCUU) OR "END"
0 080
BG-0000 IESI0059D ENTER A 3270 ADDRESS (PCUU) OR "END"
0 081
BG-0000 IESI0059D ENTER A 3270 ADDRESS (PCUU) OR "END"
==> 0 082
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                           PAUSE: 01 SCROLL: 1
                                                          MODE:
                                                                  CONSOLE
                                                                          20/011
```



```
VSEn 6.3
SYSTEM:
         VSEn
                                                TURBO (01)
                                                                  USER:
                                                                         SYS
                                                                  TIME:
                                                                         13:28:01
0 082
BG-0000 IESI0062D CHECK YOUR ANSWERS. DO YOU WANT TO CONTINUE? YES/NO
==> 0 yes
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                            PAUSE: 01
                                      SCROLL: 1
                                                            MODE:
                                                                   CONSOLE
                                                                           20/011
```



```
SYSTEM:
         VSEn
                             VSEn 6.3
                                               TURBO (01)
                                                                USER:
                                                                       SYS
                                                                TIME:
                                                                       13:28:58
        DATE 06/13/2022, CLOCK 13/28/55
F3 0003 IST052I CUSTNO IS AN INVALID START OPTION KEYWORD - IGNORED
F3 0003 IST052I VTAMPW IS AN INVALID START OPTION KEYWORD - IGNORED
F3 0003 IST1449I DEFAULT(S) WILL BE USED IF NO OVERRIDE IS SPECIFIED
F3-0003 IST1311A ENTER START OPTION OVERRIDES OR ENTER HALT TO EXIT VCDD
BG 0000 1S47I PRELEASE RDR, CICSBSX
                                               START CICS
F2 0001 1047I
               F2 CICSBSX 00319 FROM (SYSA) , TIME=13:28:58 , TKN=00000077
F2 0002 // J0B CICSBSX
                        ** CICS/ICCF BASIC STARTUP ENVIRONMENT
        DATE 06/13/2022, CLOCK 13/28/58
BG 0000 EOJ TPSTBSX
        DATE 06/13/2022, CLOCK 13/28/58, DURATION
                                                    00/00/03
BG 0001 1034I BG WAITING FOR WORK
F2 0002 1T20I SYS009 HAS BEEN ASSIGNED TO X'009' (TEMP)
F2 0002 LOG
F2 0002 ID (PARAMETERS SUPPRESSED)
F2 0002 NOLOG
F2 0002 * WAITING FOR VTAM TO COME UP
==> 3
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
                           PAUSE: 01
                                      SCROLL: 1
ACT MSG: HOLDRUN
                                                          MODE:
                                                                 CONSOLE
                                                                         20/007
```



Post-Stage 2 Processing

- Update your selection panels
- Update your application profiles
- Performing OLTP updates
- New Keys for TCP/IP



Shutdown the System and Re-IPL from DOSRES

- 1. MSG F2, DATA=CEMT P SHUT I
- 2. Z NET, QUICK
- 3. PEND
- 4. REIPL 240,LOADP=...



Conclusion

- We added the option to update from IBM z/VSE 5.2
- FSU is functionally identical to the one for IBM z/VSE 6.2





Thank you