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z/OS 1.5 DEMOpkg System Installation Guide

(2Q2004)

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Overview

The z/OS 1.5 DEMOpkg system is a fully configured, tailored, load-and-go system for the zSeries, S/390, and FLEX-*ES* environments.

What's New in this Release for z/OS

This DEMOpkg provides the following key z/OS products:

- **z/OS V1.5 CUM0402**
- CICS/TS V2.3
- DB2 V7.1
- DB2 V8.1
- IMS V8.1
- Tivoli products
- WebSphere Application Server V5.0.2
- WebSphere MQ V5.3

It also includes the following volumes:

Required Base volumes

DASD Volume	Description
DMTRES	Base operating system products
DMTCAT	Master catalog, page, spool, IODF
DMTOS1	Additional Base products
DMTOS2	Additional Base products
DMTOS3	Additional Base products

Data Management volumes

DASD Volume	Description
DMTD01	Data Management products (DB2, CICS, IMS, WAS)
DMTD02	Additional Data Management products
DMTD03	Additional Data Management products
DMTD04	Additional Data Management products
DMTD05	Additional Data Management products

DMTD06	Additional Data Management products
DMTD07	Additional Data Management products Tivoli volumes

DASD Volume	**Description**
DMTP01	Tivoli products
DMTP02	Additional Tivoli products
DMTP03	Additional Tivoli products

Feedback

We are interested in your suggestions and comments. Access our DEMOcentral Web site at: http://w3.demopkg.ibm.com and select Feedback.

Planning for the z/OS Installation

Hardware Requirements

- IBM eServer zSeries 900
- At least 15 3390 Model 3 DASD devices
- Two 3490 tape drives or one 3590 tape drive
- A non-SNA 3270 device for the master console
- If you intend to run the z/OS system native in an LPAR, see Appendix B: I/O Definition File Customization
- If you intend to run the z/OS system under VM/ESA, see Appendix A: VM System Definitions
- If you intend to run the z/OS system under FLEX-*ES*, see Installing the z/OS System (FLEX-ES Distribution)

Software Requirements

- A driver system must be installed and operational before the z/OS system can be installed
- A stand-alone DFDSS restore environment must exist for first-time installations with the proper CPU and I/O equipment installed and correctly configured

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Migration Requirements

z/OS system is a complete replacement of previous releases. Before you install this system, any local customization and local data sets that reside on your current DEMOpkg system must be preserved.

Some options for isolating local changes include:

- Keep all local and user data sets on separate volumes, which includes a local usercatalog.
- Keep all local tailoring and jobs in a separate data set, which is backed up before a new DEMOpkg system is installed.

For information on backing up local changes and data sets, see the Migration Aids section in the *z/OS 1.5 DEMOpkg Systems Reference Guide*.

Configuration Requirements

Before you IPL the z/OS system, you need to verify that the following hardware exists native or under z/VM:

- Master Console Address: 463
- DASD Volumes: (1C0,32), (300,16), (600, 16)
- Tape Volumes: (350,16), (550,16)
- CTC Addresses: (530,2)

Installing the z/OS System (Tape Distribution)

To install the z/OS system, do the following:

1. Initialize the DASD volumes

   Each of the DASD volumes must be pre-initialized using ICKDSF and must be in a 3390-3 format.

2. If restoring from a running system, use batch DFSMS-dss jobs to restore the tapes

to your selected volumes.

The tapes are delivered as standard label full volume dfdss dump tapes.

Volume	VOLSER	Dataset name
DMTRES	RES001	BACKUP.DMTRES
DMTCAT	CAT001	BACKUP.DMTCAT
DMTOS1	OS1001, OS1002	BACKUP.DMTOS1
DMTOS2	OS2001, OS2002	BACKUP.DMTOS2
DMTOS3	OS3001	BACKUP.DMTOS3
DMTD01	D01001, D01002	BACKUP.DMTD01
DMTD02	D02001	BACKUP.DMTD02
DMTD03	D03001, D03002	BACKUP.DMTD03
DMTD04	D04001, D04002	BACKUP.DMTD04
DMTD05	D05001, D05002	BACKUP.DMTD05
DMTD06	D06001, D06002	BACKUP.DMTD06
DMTD07	D07001	BACKUP.DMTD06
DMTP01	P01001	BACKUP.DMTP01
DMTP02	P02001	BACKUP.DMTP02
DMTP03	P03001	BACKUP.DMTP03

The following is a sample job:

```
//RESTVOL  JOB  CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
//         NOTIFY=&SYSUID
//*************************************************************
//* RESTORE OF PHYSICAL DUMP
//*************************************************************
//RESTORE  EXEC PGM=ADRDSSU,REGION=0M
//SYSPRINT DD SYSOUT=*
//TAPE     DD DISP=SHR,DSN=BACKUP.DMTRES,
//         VOL=SER=(RES001),
//         UNIT=/XXXX,
//         LABEL=(1,SL)
//DASD     DD DISP=SHR,UNIT=3390,VOL=SER=DMTRES
//SYSIN    DD *
  RESTORE INDD(TAPE)  -
          OUTDD(DASD)  -
          ADMIN
/*
```

Note: If installing from a 3590 cartridge, use sample JCL in Appendix C.

3. If restoring in stand-alone mode, you must IPL the DFSMS-dss IPL tape to restore the tapes to your selected volumes

   An EXTERNAL INTERRUPT is required to switch to the second tape if one exists. Under VM, a virtual EXT (#CP EXT) is required.

   Each of the DASD volumes must be restored using DFSMS-dss. The volumes are in FULL-DUMP format.

   1. Mount the DFSMSdss IPL tape on a tape drive
   2. Mount the first tape volume, for the DASD volume being restored, onto a second tape drive
   3. IPL the stand-alone DFSMSdss program tape using either:
      - The hardware console, or
      - If under VM, Enter the **#CP IPL** command

      After a few minutes the system enters a wait state by displaying PSW:0000FFFF on the screen. At that time, the program is waiting for an interrupt from a console device.

   4. On an attached 3270 terminal, press **(Enter)**

      The terminal becomes the DFSMSdss console.

   5. Enter the following commands from the console:

      All commands except for the first must be entered in position two of the command line. This example is for DFDSS-dss V1R4 and above:

      => **console**
      => **console**
      => **restore fromdev(tape),fromaddr(ttt),toaddr(ccc),noverify**
      => **Y**

      where *ttt* is the device number of the input tape, *ccc* is the output DASD device address

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Installing the z/OS System (FLEX-*ES* Distribution)

Sample Script Files

- flexes.rsc - A sample device configuration file
- flexes.sys - A sample hardware configuration file
- iplzos - A sample script to IPL the z/OS system from device ic0
- startRes - A sample script to start the resource manager
- startFlex - A sample script to start the FLEX-*ES*® emulator

Note: If the FLEX-*ES*® resource manager is not automatically started, the startRes must proceed startFlex.

For more information, read the redbook titled, "EFS Systems on a Linux Base" (SG24-6834).

Volumes

The system is comprised of 15 volumes:

- Base Operating System Volumes
  - DMTRES
  - DMTCAT
  - DMTOS1
  - DMTOS2
  - DMTOS3
- Data Management Volumes
  - DMTD01
  - DMTD02
  - DMTD03
  - DMTD04
  - DMTD05
  - DMTD06
  - DMTD07
- Tivoli Volumes
  - DMTP01
  - DMTP02
  - DMTP03

Untar Command

All the volumes are gziped tar files, which are in the form of xxxxxx.tar. The command to untar the files is:

=> tar -zxvf /mnt/cdrom/xxx*.tar

IPLing the Uncustomized z/OS System

To IPL the z/OS system, do the following:

1. Select the **IPL** option
2. IPL with the following parameters:

Parameter	Value
LOAD ADDRESS:	01C0
LOAD PARM:	01C100.1

   - If you receive the message IEA888A for the clock, enter:
     => r 00,u
   - If you receive the message IXC4ZOD for XCF, enter:
     => r 00,i
   - If you receive the message IXCZ48E for XCF datasets, enter:
     => r 00,u
3. When the $HASP426 SPECIFY OPTIONS message appears, enter the following to cold start JES2:

   => xx COLD,NOREQ

   where *xx* is the reply ID of the console prompt.

   Note: If the $HASP454, $HASP420, $HASP441, or $HASP870 messages appear, Enter a response of **Y**.

   No additional responses are required.

Customizing the z/OS System

To customize the z/OS system, complete the following steps:

1. To logon to TSO, Enter:

   => TSO SYSPRG1 (password: sysprg1)

   The ISPF Primary Option Menu appears.

2. Edit the TCP/IP configuration file: **'CENTER.PARMLIB(TCPPROF)'**
3. Edit the TCP/IP data file: **'CENTER.PARMLIB(TCPDATA)'**

4. To exit, press **(PF3)**
5. Update the Web Server configuration file to specify your HostName IP address:
    1. Enter **oedit /etc/websrv.conf**
    2. Update the **HostName** value to match your local IP address
    3. To exit, press **(PF3)**
6. Update the uss hosts file:
    1. Enter **oedit /etc/hosts**
    2. Update the HostName file
    3. To exit, press **(PF3)**

The local customization values are not be effective until the system is IPLed. To prepare for the IPL, you need to shutdown the z/OS system.

Shutting Down the z/OS System

To shutdown the z/OS system, do the following:

1. From the system console, Enter:

    => START SHUTDWN

    After several minutes and many messages, the ALL AVAILABLE FUNCTIONS COMPLETE message appears.

2. To terminate JES2, Enter:

    => $PJES2

    If JES2 does not terminate and ALL tasks are down, you can issue the **$PJES2, ABEND** JES2 shutdown command and then reply **r xx,END**.

IPLing the Customized z/OS System

To make the local customization values effective, the customized z/OS system needs to be re-IPLed.

IPL Options

- If you run only the Base volumes, specify: LOADPARM=01C1DP.1
- If you run the full system, specify: LOADPARM=01C100.1

Logging onto the Customized z/OS System

TSO User IDs

The TSO administration user IDs you can use are:

User ID	Description
SYSPRG1	Systems programmer ID. Fully authorized in RACF, SMS and others. Perform system programming tasks that require a high level of authorization.
SYSADM1	System administrator ID.
SYSOPR1	System operator ID.
SYSADM	DB2 administrator ID.
BPXROOT	OE administrator ID.
WEBADM	Web Server administrator ID.
DCEADM	DCE Server administrator ID.
SYSUSR1	End user ID.

Note: The passwords are the same as the user ID. If not, logon to **SYSPRG1** and reset the passwords.

TSO Logon Procedures

The logon procedures available to TSO users are:

Procedure	Description
SYSUSER	provides access to the z/OS BASE products.
DBAUSER	provides access to the z/OS BASE products plus the Data Management products.
TIVUSER	provides access to Tivoli products.

TSOUSER provides access to native TSO READY prompt.

Appendixes

Appendix A: VM System Definitions

If you intend to run the z/OS system under z/VM the following user ID definition and profile exec is required.

VM Directory Definitions

The VM directory entries are:

```
USER TESTMVS ....... 256M 512M BG
 OPTION TODEN MAINTCCW DEVMAINT
 MACH ESA 2
 IPL 190 PARM AUTOCR
 ACCOUNT DFDA0000 TESTMVS
 CONSOLE 463 3270 T CTRMAINT
 SPOOL 00C 2540 READER A
 SPOOL 00D 2540 PUNCH  A
 SPOOL 00E 1403 A
 LINK MAINT    190 190 RR
 LINK MAINT    19D 19D RR
 LINK MAINT    19E 19E RR
************************************************************
* DASD
************************************************************
* Required DASD and Virtual Address
* DMTRES as 1C0
* DMTCAT as 1C1
* DMTOS2 as 1C2
* DMTOS1 as 1C3
* DMTOS3 as IC4
* DMTD01 as 1C5
* DMTD02 as 1C6
* DMTD03 as 1C7
* DMTD04 as 1C8
* DMTD05 as 1C9
* DMTD06 as 1CA
* DMTD07 as 1CB
* DMTP01 as 1CC
* DMTP02 as 1CD
```

```
* DMTP03 as 1CE
************************************************************
* Local Dial Terminals                                      *
************************************************************
 SPECIAL 470 3270
 SPECIAL 471 3270
 SPECIAL 472 3270
 SPECIAL 473 3270
************************************************************
* 191 MINIDISK (TESTMVS uses GUESTMNT 191 PROFILE EXEC
************************************************************
 LINK GUESTMNT 191 191 RR
```

Appendix B: I/O Definition File (IODF) Customization

If you intend to run the z/OS system in an LPAR without z/VM, the pre-configured IODF used to IPL needs to be customized to match your native hardware environment.

Follow these tasks to use an existing z/OS system to update the DEMOpkg's IODF file to match your own:

1. Logon to your local z/OS system
2. Restore the DEMOpkg DMTRES and DMTCAT volumes
3. Run the job **'CENTER.SAMPLE.JCL(RECATL)'** located on the DMTCAT volume

   It will catalog the DEMOpkg IODF dataset on your local system.

4. Using your local IOCP file or an exported IODF file:
   - Copy the member in **'CENTER.SAMPLE.JCL(MVSCP)'** on the DMTCAT volume to the bottom of your IOCP file.
   - Change ESOTERICS addresses to match your 3390 and 3480 addresses.
   - Change CONSOLE addresses to match your non-SNA 3270 addresses.
5. Access your HCD panels:
   1. Select option **5** (Migrate IOCP/OS data)
   2. Create a work IODF file **'SYS1.IODF99.WORK'** on the DMTCAT volume
   3. For the Processor ID, Enter **P01**
   4. For the OS configuration ID, Enter **OS1**
   5. For the Input Dataset, Enter **'your created input dataset'**
   6. Enter your Processor type, Model number and Mode
   7. Press **(Enter)** to select OS config
   8. After HCD processing, view any assembler errors and correct any problems in the IOCP file
   9. Re-run the migrate function until the IODF is successfully written to the work IODF

10. Select option **2** (Activate IODF)
11. Select option **1** (Build Production I/O definition file)
12. Press **(PF3)** for any screens of informational messages or logs
13. For production IODF name, Enter **'SYS1.IODF99'** on the DMTCAT volume
14. Exit HCD
15. Edit **'SYS1.PARMLIB(CONSOL99)'** on the DMTRES volume and add your native master console addresses
16. Edit **'CENTER.VTAMLST(LOCALPKG)'** on the DMTCAT volume and add your local 3270 TSO terminal addresses

The following datasets are used in the z/OS DEMOpkg System IPL:

```
LOAD:      SYS1.IPLPARM(LOAD99) - on DMTCAT
IODF:      SYS1.IODF99 - on DMTCAT
PARMLIB:   SYS1.PARMLIB(IEASYS99) - on DMTRES
VTAMLST:   CENTER.VTAMLST(LOCALPKG) - on DMTCAT
```

Use the following values to IPL the system:

```
LOAD ADDRESS: DMTRES-address
LOAD PARMS:   DMTCAT-addr|99|.1
```

Appendix C: 3590 Sample Installation JCL

```
 000100 //REST3590 JOB CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
TIME=1440,
 000200 //
NOTIFY=&SYSUID
 000300 //
*************************************************************
 000400 //* RESTORE OF DEMOPKG SYSTEM FROM 3590 LIBRARY
TAPE
 000410 //* ** ALL  VOLUMES
**
 000420 //* VERIFY ==> TAPE
UNIT
 000430 //*            TAPE
VOLSER
 000440 //*            DASD
VOLSER
 000450 //
*************************************************************
 000460 //RES      EXEC PGM=ADRDSSU,
REGION=0M
```

```
 000470 //TAPE     DD DISP=SHR,DSN=BACKUP.
DMTRES,
 000480 //
UNIT=3590,
 000490 //         VOL=(,RETAIN,
SER=XXXXXX),
 000500 //         LABEL=(1,
SL)
 000600 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 000700 //SYSPRINT DD
SYSOUT=*
000800 //SYSIN    DD
*
000900   RESTORE INDD(TAPE)
-
001000           OUTDD(DASD)
-
001100           COPYVOLID
-
001200
ADMIN
001300 /
*
001400 //CAT      EXEC PGM=ADRDSSU,
REGION=0M
001500 //TAPE     DD DISP=SHR,DSN=BACKUP.
DMTCAT,
001600 //
UNIT=3590,
001700 //         VOL=(,RETAIN,
SER=XXXXXX),
001800 //         LABEL=(2,
SL)
001900 //DASD     DD DISP=SHR,UNIT=3390,
VOL=SER=XXXXXX
002000 //SYSPRINT DD
SYSOUT=*
002100 //SYSIN    DD
*
002200   RESTORE INDD(TAPE)  -
 002300           OUTDD(DASD)  -
 002400           COPYVOLID    -
 002500           ADMIN
 002600 /*
 002700 //OS1      EXEC PGM=ADRDSSU,REGION=0M
 002800 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTOS1,
 002900 //         UNIT=3590,
 003000 //         VOL=(,RETAIN,SER=XXXXXX),
```

```
 003100 //         LABEL=(3,SL)
 003200 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 003300 //SYSPRINT DD SYSOUT=*
 003400 //SYSIN    DD *
 003500   RESTORE INDD(TAPE)  -
 003600           OUTDD(DASD)  -
 003700           COPYVOLID    -
 003800           ADMIN
 003900 /*
 004000 //OS2      EXEC PGM=ADRDSSU,REGION=0M
 004100 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTOS2,
 004200 //         UNIT=3590,
 004300 //         VOL=(,RETAIN,SER=XXXXXX),
 004400 //         LABEL=(4,SL)
 004500 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 004600 //SYSPRINT DD SYSOUT=*
 004700 //SYSIN    DD *
 004800   RESTORE INDD(TAPE)  -
 004900           OUTDD(DASD)  -
 005000           COPYVOLID    -
 005100           ADMIN
 005200 /*
 005300 //OS3      EXEC PGM=ADRDSSU,REGION=0M
 005400 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTOS3,
 005500 //         UNIT=3590,
 005600 //         VOL=(,RETAIN,SER=XXXXXX),
 005700 //         LABEL=(5,SL)
 005800 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 005900 //SYSPRINT DD SYSOUT=*
 006000 //SYSIN    DD *
 006100   RESTORE INDD(TAPE)  -
 006200           OUTDD(DASD)  -
 006300           COPYVOLID    -
 006400           ADMIN
 006500 /*
 007500 //D01      EXEC PGM=ADRDSSU,REGION=0M
 007600 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTD01,
 007700 //         UNIT=3590,
 007800 //         VOL=(,RETAIN,SER=XXXXXX),
 007900 //         LABEL=(6,SL)
 008000 //DASD     DD DISP=SHR,UNIT=3390,
VOL=SER=XXXXXX
 008100 //SYSPRINT DD
SYSOUT=*
 008200 //SYSIN    DD
*
 008300   RESTORE INDD(TAPE)
-
```

```
 008400           OUTDD(DASD)
-
 008500           COPYVOLID
-
 008600
ADMIN
 008700 /
*
 008800 //D02      EXEC PGM=ADRDSSU,
REGION=0M
 008900 //TAPE     DD DISP=SHR,DSN=BACKUP.
DMTD02,
 009000 //
UNIT=3590,
 009100 //         VOL=(,RETAIN,
SER=XXXXXX),
 009200 //         LABEL=(7,
SL)
 009300 //DASD     DD DISP=SHR,UNIT=3390,
VOL=SER=XXXXXX
 009400 //SYSPRINT DD
SYSOUT=*
 009500 //SYSIN    DD
*
 008000 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 008100 //SYSPRINT DD SYSOUT=*
 008200 //SYSIN    DD *
 008300   RESTORE INDD(TAPE)  -
 008400           OUTDD(DASD)  -
 008500           COPYVOLID    -
 008600           ADMIN
 008700 /*
 010400 //D03      EXEC PGM=ADRDSSU,REGION=0M
 010500 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTD03,
 010600 //         UNIT=3590,
 010700 //         VOL=(,RETAIN,SER=XXXXXX),
 010800 //         LABEL=(8,SL)
 010900 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 011000 //SYSPRINT DD SYSOUT=*
 011100 //SYSIN    DD *
                  RESTORE INDD(TAPE) -
                          OUTDD(DASD) -
                          COPYVOLID
-
 011200           ADMIN
 011300 /*
 011400 //D04      EXEC PGM=ADRDSSU,REGION=0M
 011500 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTD04,
```

```
 011600 //         UNIT=3590,
 011700 //         VOL=(,RETAIN,SER=XXXXXX),
 011800 //         LABEL=(9,SL)
 011900 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
012000 //SYSPRINT DD SYSOUT=*
012100 //SYSIN    DD *
012200   RESTORE INDD(TAPE)  -
012300           OUTDD(DASD)  -
012400           COPYVOLID    -
012500           ADMIN
011300 /*
011400 //D05      EXEC PGM=ADRDSSU,REGION=0M
011500 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTD05,
011600 //         UNIT=3590,
011700 //         VOL=(,RETAIN,SER=XXXXXX),
011800 //         LABEL=(10,SL)
011900 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
012000 //SYSPRINT DD SYSOUT=*
012100 //SYSIN    DD *
012200   RESTORE INDD(TAPE)  -
012300           OUTDD(DASD)  -
012400           COPYVOLID    -
012500           ADMIN
 011300 /*
 011400 //D06      EXEC PGM=ADRDSSU,REGION=0M
 011500 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTD06,
 011600 //         UNIT=3590,
 011700 //         VOL=(,RETAIN,SER=XXXXXX),
 011800 //         LABEL=(11,SL)
 011900 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
012000 //SYSPRINT DD SYSOUT=*
012100 //SYSIN    DD *
012200   RESTORE INDD(TAPE)  -
012300           OUTDD(DASD)  -
012400           COPYVOLID    -
012500           ADMIN
 011300 /*
 011400 //D07      EXEC PGM=ADRDSSU,REGION=0M
 011500 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTD07,
 011600 //         UNIT=3590,
 011700 //         VOL=(,RETAIN,SER=XXXXXX),
 011800 //         LABEL=(12,SL)
 011900 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
012000 //SYSPRINT DD SYSOUT=*
012100 //SYSIN    DD *
012200   RESTORE INDD(TAPE)  -
012300           OUTDD(DASD)  -
012400           COPYVOLID    -
```

```
012500
ADMIN
012600 /*
013600 //P01      EXEC PGM=ADRDSSU,REGION=0M
013700 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTP01,
013800 //         UNIT=3590,
013900 //         VOL=(,RETAIN,SER=XXXXXX),
014000 //         LABEL=(13,SL)
014100 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
014200 //SYSPRINT DD SYSOUT=*
014300 //SYSIN    DD *
014400   RESTORE INDD(TAPE)  -
 014500           OUTDD(DASD)  -
 014600           COPYVOLID    -
 014700           ADMIN
 014800 /*
 014900 //P02      EXEC PGM=ADRDSSU,REGION=0M
 015000 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTP02,
 015100 //         UNIT=3590,
 015200 //         VOL=(,RETAIN,SER=XXXXXX),
 015300 //         LABEL=(14,SL)
 015400 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 015500 //SYSPRINT DD SYSOUT=*
 015600 //SYSIN    DD *
 015700   RESTORE INDD(TAPE)  -
 015800           OUTDD(DASD)  -
 015900           COPYVOLID    -
 016000           ADMIN
 016100 /*
 016200 //P03      EXEC PGM=ADRDSSU,REGION=0M
 016300 //TAPE     DD DISP=SHR,DSN=BACKUP.DMTP03,
 016400 //         UNIT=3590,
 016500 //         VOL=(,RETAIN,SER=XXXXXX),
 016600 //         LABEL=(15,SL)
 016700 //DASD     DD DISP=SHR,UNIT=3390,VOL=SER=XXXXXX
 016800 M/SYSPRINT DD SYSOUT=*
 016900 //SYSIN    DD *
 017000   RESTORE INDD(TAPE)  -
 017100           OUTDD(DASD)  -
 017200           COPYVOLID    -
 017300           ADMIN
 017400 /*
```