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z/OS 1.5 DEMOpkg System Reference Guide

(2Q2004)

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Overview

The *z/OS 1.5 DEMOpkg System Reference Guide* supplements the installation guide for z/OS DEMOpkg on the IBM eServer zSeries 900 platform.

What's in This Release

The z/OS DEMOpkg system resides on 15 DASD 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.

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z/OS System IPL

Under normal conditions, the z/OS system automatically IPLs without operator intervention. The following messages are presented as an example and are not complete. The exact messages you receive and the sequence you receive them in depends upon your installation and will vary greatly from the following screens.

Example of a z/OS IPL Message

```
+------------------------------------------------+
|                                                |
|IEA247I USING IEASYS00 FOR z/OS 01.05.00 HBB7708  |
|CSV410I APF FORMAT IS NOW DYNAMIC               |
|                                                |
|IXL011I XES HARDWARE SUPPORT IS NOT INSTALLED.    |
|        REASON: 02                              |
|*IXC414I CANNOT JOIN SYSPLEX TESTPLX WHICH IS     |
|         RUNNING IN MONOPLEX                    |
```

```
|         MODE:  CONFIGURATION REQUIREMENT         |
|*IXC420D REPLY I TO INITIALIZE SYSPLEX TESTPLX,   |
|         OR TO REINITIALIZE XCF                   |
|                                                  |
+--------------------------------------------------+
```

To continue the IPL, you must reply **R 00,I**:

Example of a z/OS IPL Message

```
+--------------------------------------------------+
|                                                  |
|===>  R 00,I                                      |
|                                                  |
|IEE600I REPLY TO 00 IS;I                          |
|*IXC415I FORCING SYSPLEX CONFIGURATION TO BE      |
|         MOMPLEX MODE                             |
|*IXC413I MULTISYS SYSPLEX CONFIGURATION PREVENTED|
|         BY PLEXCFG=MONOPLEX                      |
|*IXC413I XCFLOCAL SYSPLEX CONFIGURATION PREVENTED|
|         BY PLEXCFG=MONOPLEX                      |
|                                                  |
|IEA598I TIME ZONE = W.06.00.00                    |
|IEA191I CONSOLE 463 DEFINED AS MASTER CONSOLE     |
|IEE712I SET CNGRP PROCESSING COMPLETE             |
|                                                  |
+--------------------------------------------------+
```

The screen clears and is redisplayed as the z/OS console.

When the $HASP426 specify options message appears, enter the following to warm start JES2:

=> XX,NOREQ

VTAM, TCP/IP, and TSO automatically start as well as other z/OS server tasks.

If JES2 was not properly terminated by the previous shutdown, it will not be able to obtain the checkpoint data set lock. The following message will inform you of this condition:

```
$HASP479 UNABLE TO OBTAIN CKPT DATA SET LOCK
$HASP454 SHOULD JES2 BYPASS THE MULTI-SYSTEM
         INTEGRITY LOCK?
```

To bypass the checkpoint data set lock, enter:

=> R 1,Y

No other responses are required to complete the IPL.

The IPL of the z/OS system is complete!

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Application Start Commands

The z/OS subsystem startup commands are:

z/OS Subsystem Start Commands

Product	Startup Command
APPC	S APPC,SUB=MSTR,APPC=(00)
Application Monitor	S FBISTART
ASCH	S ASCH,SUB=MSTR,ASCH=(00)
CICS	S CPSMCAS S CPSMCMAS S CPSMWUI S CICSAOR1 S CICSAOR2 S CICSTOR1 S CTGATE
DataHub	S DATAHUB
Database 2 (DB2) DSNA V7R1	@START DB2
Database 2 (DB2) DSNB V8R1	-START DB2
DataProp Apply	S DPROPAPP
DataProp Capture	S DPROPCAP
DB2 Common Tracker	S BCTPROC S DCCPROC
DB2 Log Analysis	S DB2ALA
DB2 Performance Expert	S DB2PE
DB2 Performance Monitor	S DB2PM
DB2 Query Monitor	S DB2QM
DB2 Workload Manager	S DB2WM81
DCE/DFS	S DCE,parm="-nodce" S DFS,parm="-nodfs"
DFM	S DFM,SUB=MSTR

EREP	S EREP
FFST	S FFSTPROC.FFST
GMF	S GMFHS
HCM	S CBDQDISP
HSM	S DFHSM
IBM Session Manager	S IBMSM
ICSF	S ICSF
IMS	S IMSAOM S IMSASCI S IMSARM S IMSAIRLM S IMSAMAST S IMSATOC For a normal IMS restart: **=> xx,/nre checkpoint 0 format all** If a normal restart fails, try an emergency restart: **=> xx,/ere checkpoint 0 bldq nobmp.** **Note:** The ending "." is required on the command.
Intelligent Data Miner	S IDMSERV
JES2	S JES2
LDAP	S LDAPSRV
NetView	S NETVSSI S NETVIEW
NFS Server	S NFSSRV
NPM	S NPMNSI S NPM
NPM/IP	S AESTCPIP
OAM	S OAM
OSA	S IOASRV S OSASF1
RMF	S RMF.RMF F RMF,START III S GPMSERVE
RMM	S DFRMM

RODM	S RODM
RRS	S RRS, SUB=MSTR
TCP/IP	S TCPIP
Time Sharing Option (TSO)	S TSO
Tivoli Information Management	S TIMINFO
Tivoli Storage Manager	S TIVSM
Tivoli Workload Scheduler	S TWC8 S TWT8 S TWD8
VTAM	S VTAM
Web Server	S WEBSRV
WebSphere Application Server	TRACE CT,WTRSTART=BBOWTR S BB05DMN,ENV=...
WebSphere MQ for z/OS	WMQA START QMGR WMQA START CHINIT
WebSphere Studio Application Monitor	S CYN1PROC
WebSphere Studio Asset Analyzer	S WSAASRV
WebSphere Studio Enterprise Developer	S JMONITOR S WSEDSRV
Workload Simulator	S WSIMSRV

Note: Some of these subsystems and started tasks are not available with different configurations of the z/OS system.

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z/OS System Shutdown

From the z/OS system console, shutdown z/OS by entering:

=> S SHUTDWN

The following is an example of an orderly z/OS shutdown including examples of the shutdown of some subsystems. Always shutdown all subsystems before you end z/OS. To shutdown z/OS in an orderly manner, complete the following steps:

1. To display all the active jobs, Enter:

   => D A,L

2. To stop VTAM, Enter:

=> Z NET,QUICK

3. To stop UNIX, Enter:

   => F BPXOINIT,SHUTDOWN=FORKINIT
   => C NFSCM
   => C ZFS

4. To stop JES2 lines, Enter:

   => $PLINE1,LINE2

5. To stop JES2, Enter:

   => $PJES2

6. If JES2 will not stop and all tasks are down, Enter:

   => $PJES2,ABEND
   => r xx,END

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Application Shutdown Commands

The z/OS subsystem shutdown commands are:

z/OS Subsystem Shutdown Commands

Product	Shutdown Command
APPC	C APPC
Application Monitor	C FBISTART
ASCH	C ASCH
CICS	C CPSMWUI C CPSMCMAS P CPSMCAS F CICSAOR1,CEMT P SHUT F CICSAOR2,CEMT P SHUT F CICSTOR1,CEMT P SHUT C CTGATE

DataHub	C DATAHUB
Database 2 (DB2) DSNA V7R1	@STOP DB2
Database 2 (DB2) DSNA V8R1	-STOPDB2
DataProp Apply	C DPROPAPP
DataProp Capture	C DPROPCAP
DB2 Common Tracker	C BTCPROC
DB2 Log Analysis	F DB2ALA,STOP
DB2 Performance Expert	P DB2PE
DB2 Performance Monitor	P DB2PM
DB2 Query Monitor	P DB2QM
DCE/DFS	P DCE P DFS
DFM	P DFM,SUB=MSTR
EREP	P EREP
FFST	P FFST
GMF	P GMFHS
HCM	C CBDQDISP
HSM	P DFHSM
IBM Session Manager	P IBMSM
ICSF	P ICSF
IMS	R *xx*,/CHECKPOINT FREEZE P IMSAIRLM P IMSATOC
Intelligent Data Miner	P IDMSERV
JES2	$PLINE*x* $PJES2
LDAP	P LDAPSRV
NetView	P NETVSSI P NETVIEW
NFS Server	P NFSSRV
NPM	P NPMNSI P NPM
NPM/IP	P AESTCPIP C AESTNETS
OAM	P OAM
OSA	P IOASRV

RMF	P RMF.RMF P GPMSERVE
RMM	P DFRMM
RODM	F RODM,CHKPT,TERM
RRS	SETRRS CANCEL
TCP/IP	P TCPIP
Time Sharing Option (TSO)	P TSO
Tivoli Information Management	C TIMINFO
Tivoli Storage Manager	F TIVSM,HALT
Tivoli Workload Scheduler	P TWC8 P TWT8 P TWD8
VTAM	Z NET,QUICK
Web Server	P WEBSRV
WebSphere Application Server	P BBODMNB
WebSphere MQ for z/OS	WMQA STOP QMGR WMQA STOP CHINIT
WebSphere Studio Asset Analyzer	C WSAASRV
WebSphere Studio Enterprise Developer	P WSEDSRV C JMONITOR
Workload Simulator	P WSIMSRV

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z/OS Systems Management

IPL Options

The z/OS system uses a number of IPL LOADxx members for different IPL requirements. Specify the xx option at load time of the z/OS system.

- The following LOADxx options are located in SYS1.IPLPARM:

Option	Description
LOADDP	For Base System IPL. Requies volumes: DMTRES/CAT/OS1/OS2/OS3.
LOAD00	For full system IPL. Requires all volumes.

  The LOADxx members point to corresponding IEASYSxx members.

- The following IEASYSxx options are located in SYS1.PARMLIB:

Option	Description

IEASYSDP	Used for Base IPL.
IEASYS00	For full system IPL.

For information about running a Sysplex under z/VM, see Appendix C: DEMOpkg Sysplex Operation.

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TSO Management

The z/OS system uses a number of TSO logon procedures for different IPL requirements. TSO logon procedures are contained in SYS1.LOGON and they call all the CLISTs with the same name located in CENTER.CLIST.

The attributes of the logon procedures are:

Procedures	**Description**
SYSUSER	Used with the Base system.
DBAUSER	Used with the Data Management system.
TIVUSER	Used with the Tivoli system.
TSOUSER	Logon to TSO READY only. Used for native TSO functions.

DASD Management

The z/OS system consists of five 3390 Model 3 volumes containing required libraries and ten optional volumes containing the Data Management and Tivoli products. They are:

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

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Guidelines for Adding Local Volumes and Data Sets

Please follow these guidelines to add any local data sets or volumes to the z/OS system:

- Do ***not*** use the free space on the volumes we deliver for local use. All free space will be used for future DEMOpkg system products and updates. If you use the free space, you must backup your changes prior to installing a new version of the DEMOpkg.
- Allocate separate DASD volumes from those shipped for any local data sets or local additions. Use DMTUxx for the volume label
- Create a local ICF user catalog for any local volumes. Use the job in 'CENTER.SAMPLE.JCL(DEFUCAT)'.
- Define a unique alias for any data sets on your volumes. Use the job in 'CENTER.SAMPLE.JCL(DEFALIAS)'.

  When we replace the system, all you have to do is run a connect job for your local user catalog on your volume, and run one alias job per unique high level qualifier for data sets on your volume.

- Backup your entire z/OS system and your local volumes on regular basis.

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Adding a Local Non-SMS Volume

Under Storage Management Subsystems (SMS), all allocations are controlled by ACS routines. These routines can override user JCL. Non-SMS volumes must be defined to the EXCLUDE list to allow users to specifically request allocations to that volume.

To add a local non-SMS volume to the z/OS system, complete the following steps:

1. Vary offline the new volume to z/OS
2. To use ICKDSF to initialize the volume, Enter job:

=> 'CENTER.SAMPLE.JCL(INITVOLN)'

Important: Volumes labeled **TSTxxx** are automatically defined to an SMS ACS routines EXCLUDE list.

3. Define the new volume to the SMS ACS routines EXCLUDE list:
    1. Logon to the **SYSPRG1** user ID
    2. Access ISMF by selecting option **13.5**
    3. Select option **7** (Automatic Class Selection)
    4. Verify the CDS NAME ==> SYS1.SMS.PROD.SCDS
    5. Select option **1** (Edit)
    6. To select 'CENTER.ACS.ROUTINES', press **(Enter)**
    7. Select member **PRODSC**
    8. Scroll forward to the section labeled 'DEFINE DASD EXCLUSION LIST'
    9. Add the name of your new non-SMS volume after the last entry on the second line
4. To return to the ACS Application Selection screen, press **(PF3)**
5. Select option **2** (Translate)
6. Verify the ACS SOURCE MEMBER ==> PRODSC
7. To translate, press **(Enter)**

    The return code should be 0.

8. To exit to the ACS Application Selection screen, press **(PF3)**
9. Select option **3** (Validate)
10. Verify the ACS ROUTINE TYPE ==> *****

    The validation should be successful.

11. To exit, press **(PF3)**
12. Return to the ISPF Primary Option Menu
13. From the OS/390 master console, Enter:

    => SETSMS ACDS(SYS1.SMS.PROD.ACDS) SCDS(SYS1.SMS.PROD.SCDS)

14. Vary online the new volume to z/OS
15. Verify the volume is defined correctly by allocating a data set on the volume
16. To define an ICF user catalog on the new volume, Enter job:

    => 'CENTER.SAMPLE.JCL(DEFUCATN)'

17. If you have an existing volume with a catalog, run a connect job to join the catalog to the system's MASTER catalog by using the job CENTER.SAMPLE.JCL(CONNECT)

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Adding a Local SMS Volume

Note: Volumes DMTU01 through DMTU08 have been predefined to SMS. If you initialize the volumes with these serial numbers and use the following procedures, the volumes will automatically be added to the USRGROUP storage pool.

To add a local SMS volume to the z/OS system, complete the following steps:

1. Vary offline the volume to z/OS
2. To use ICKDSF to initialize the volume, customize and submit the job:

   => 'CENTER.SAMPLE.JCL(INITVOLU)'

3. Vary online the new volume to z/OS
4. To define an ICF user catalog on the new volume, customize and submit the job:

   => 'CENTER.SAMPLE.JCL(DEFUCATS)'

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Adding Data Sets to a New Volume

To add data sets to a new volume, complete the following steps:

1. Pick a unique high-level qualifier not already in the catalog structure for the data sets
2. Define an alias in the MASTER catalog for the new high-level qualifier pointing to your USER catalog on your volume
3. To define unique alias for any data sets on your volumes, customize and submit the job:

   => 'CENTER.SAMPLE.JCL(DEFALIAS)'

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RACF Management

Review the following general notes regarding z/OS system security:

- All product data sets have been set up with RACF UACC(READ) access generic security. Only TSO users defined as RACF SPECIAL, batch jobs, or started tasks defined to the SYSPROC group with the correct authority can update these data sets.
- All TSO user IDs have been defined to RACF. The following are the RACF USER categories:

Category	User IDs
RACF Special	SYSPRG1, SYSADM1, SYSOPR1, AOPADM
RACF User	SYSUSR1 and new users IDs

Note: The passwords are the same as the user IDs. though you may have to use the ALTUSER command to reset some passwords.

The following are the RACF GROUP categories:

Category	Description
SYSPROG	System programmers IDs
SYSPROC	Started procedures
ADMIN	Administrative users IDs
USER	General users IDs

- Users that require access to authorized data sets and resources should be added to the access list for that resource.
- Started tasks that require access to authorized data sets and resources should be defined to RACF with a DFLTGRP(SYSPROC).
- All RACF functions can be performed via the online panels by selecting ISPF option **13.12**.
- RACF security for SDSF has been implemented under the various `ISF.**`authorities.
- The RACF databases in restructured format are:

Database	Dataset
Primary	SYS1.RACFP
Backup	SYS1.RACFB

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Catalog Management

The system uses the following catalogs:

System User Catalogs

Catalog	Dataset
MASTER	CATALOG.MASTER.MCAT
System	CATALOG.SYSTEMS.UCAT
Data Management	CATALOG.DATAMGMT.UCAT
Tivoli	CATALOG.TIVOLI.UCAT
DLIBS	CATALOG.DLIBS.UCAT

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SMS Management

The z/OS system uses SMS to manage most of its DASD volumes. The DASD volumes status are labeled:

Volume	Description
DMTRES, DMTCAT	Non-SMS volumes for system code
DMTOS*	SMS volumes for system code
DMTP*	SMS volumes for Tivoli code
DMTD*	SMS volumes for Data Management code
DMTA*	SMS volumes for optional DLIBs
DMTU*	SMS volumes that you can add to store your local user data.

The SMS ACS attributes of the system are:

Data Class	Storage Class	Management Class	Storage Group	Volumes
none	OSBASE	OSMGMT	BASE	DMTOS*
none	DMBASE	DMMGMT	DMGROUP	DMTD01-08
none	BASE	STANDARD	PRIMARY	DMTP01-08
none	DLBASE	DLMGMT	DLIBGRP	DMTA01-08
none	USRBASE	USRMGMT	USRGROUP	DMTU01-08

ACS Routines

The SMS ACS routines are contained in CENTER.ACS.ROUTINES. The SMS ACS test routines are contained in CENTER.ACS.TESTS.

The SMS CDS datasets are SYS1.SMS.PROD.SCDS/ACDS.

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Key Datasets

SYS1 Datasets

SYS1 data sets are those shipped with any z/OS system, whether it be a CB/IPO, CB/PDO, MVS Express, or individual product install. While some data sets have been modified for the DD&S *generic* environment, you should ***not*** modify them. The datasets tend to get entirely replaced with updates, and any local modifications will be overlaid.

The SYS1 data sets are:

System Dataset Customized for Generic z/OS System

Dataset	Description
SYS1.PARMLIB	z/OS System Parameters Library
SYS1.PROCLIB	z/OS System Procedures Library
SYS1.LOGON	TSO/E Logon Procedures Library

CENTER Datasets

CENTER datasets are most effected by customization. These datasets usually get concatenated in front of the SYS1 data sets in jobs, logon procedures, and so on. You can use these datasets to add your own locally required members.

The CENTER datasets are:

System Dataset Further Customized for Center Environment

Dataset	Description
CENTER.PARMLIB	System parameters
CENTER.PROCLIB	System procedures
CENTER.LINKLIB	Local and DD&S programs and apps
CENTER.LPALIB	Local and DD&S programs and apps
CENTER.CICS	CICS jobs and tables
CENTER.CICS.LOADLIB	Local CICS transactions
CENTER.CLIST	Local and DD&S CLISTs and EXECs
CENTER.ACS.ROUTINES	Local and DD&S SMS ACS routines
CENTER.IMS	IMS jobs and tables
CENTER.IMS.LOADLIB	Local IMS transactions
CENTER.ISP*LIB	Local and DD&S ISPF datasets
CENTER.SAMPLE.JCL	Sample JCL for center use
CENTER.SCRIPT	Script files
CENTER.SOURCE	Source files, logmodes, USS Tables, etc.
CENTER.VTAMLST	VTAM definitions
CENTER.SYSPLEX.PARMLIB	Sysplex definitions

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UNIX Management

UNIX Filesystems

The UNIX filesystems are:

Dataset	Description
OMVS.ROOT	UNIX base directory
OMVS.TESTMVS.ETC	UNIX ETC directory
OMVS.TESTMVS.VAR	UNIX user directories
OMVS.TESTMVS.DEV	UNIX Dev directories
OMVS.TESTMVS.TMP	UNIX tmp directory

UNIX Administrative User IDs

The UNIX administrative IDs are:

Userid	Description
BPXROOT	UNIX root administrator
DCEADM	DCE/DFS administrator
WEBADM	ICSS administrator

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z/OS System Utilities

The z/OS system uses the following activities and utilities for system maintenance:

Password Change Exec

The password change exec lets you manage TSO user ID passwords, and enables you to manage the assigning of passwords at required intervals.

To use the exec, you must first logon as an authorized user. To start the exec, Enter on the command line:

=> TSO MVSPWD

The exec prompts you for new passwords and then builds a batch job that changes all user ID passwords. An option is provided that enables you to manually update the job to provide user IDs with unique passwords.

After the job is submitted, a global reset of all passwords is done followed by a submission of jobs for each user ID changing its RACF password.

Note: Do not submit the job from inside the EDIT THE JOB option. If you do, you will receive RACF errors and the jobs will fail to complete the password change.

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I/O Generation

The z/OS system uses an IODF file defined by the HCD process to control its MVSCP and I/O devices. The HCD process allows for dynamic definition and activation of devices without a POR or IPL. The HCD dialogs can be accessed by selecting option **12.2**.

Note: Only some of the dynamic configuration or activation facilities can be done while running as a guest under VM/ESA.

The following is a list of the IODF files supplied with the system:

Parameters	**File**
IODF file:	SYS1.IODF00
loadxx member:	SYS1.IPLPARM
Parmlib:	SYS1.PARMLIB

JES2 Spool Processing

The JES2 spool can fill with various jobs and started tasks. To find out what is in the spool, Enter the following command at the z/OS operator's console:

=> $dn,all

```
-----------------------------------------------------
|$HASP608  (list of all jobs in the spool followed by)|
|$HASP646  nn PERCENT SPOOL UTILIZATION               |
-----------------------------------------------------
```

It is very important to keep this spool below 80%; JES2 quickly stops scheduling jobs if the percentage gets critical. You can purge each job output in the spool individually, or schedule a COLD start on JES2 the next time the z/OS system is IPLed. The response to the JES2 startup message to a COLD start is:

=> r 01,cold,noreq

This command cleans out the entire spool space.

Purging Output in the OUTPUT Queue

To purge each job output in the OUTPUT queue, complete the following steps:

1. From the ISPF Primary Option Menu, Enter:

   => 13.14;O

   A list of all the jobs in the OUTPUT queue is displayed.

2. Enter a **P** beside the jobs to be purged

Purging Output in the HOLD Queue

To purge each job output in the HOLD queue, complete the following steps:

1. From the ISPF Primary Option Menu, Enter:

   => 13.14;H

   A list of all the jobs in the HOLD queue is displayed.

2. Enter a **P** beside the jobs to be purged

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TCP/IP Access

A TCP/IP client can be accessed with either native TCP/IP or with the TCP/IP-UNIX feature by selecting OE paths from an FTP server. The z/OS component will use the correct method for most functions.

To use the TCP/IP-UNIX feature for a TELNET client, request TCP/IP port number 1023. TCP/IP customization members are in: CENTER.PARMLIB (TCPPROF) and CENTER. PARMLIB (TCPDATA).

Environmental Record Editing & Printing (EREP) File Processing

Because the z/OS system can run as a guest under VM, all EREP records for I/O devices are passed up to VM for processing. For instructions on processing EREP data, refer to the VM/ESA reference guides.

The z/OS EREP file records all software and MIH events and may fill up over time. To clear the SYS1.LOGREC data set and process the data, start the EREP task by Entering:

=> S EREP

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z/OS Subsystems

The major z/OS subsystems are:

- DB2
- CICS Transaction Server
- IMS/ESA
- WebSphere MQ
- NetView/390
- WebSphere Application Server

DB2 Subsystem

The values defined for DB2 are:

Parameter	DSNA V7R1	DSNB V8R1
Command Character:	@	-
Location Name:	TSTDB201	TSTDB202
DB2 Administrator ID:	DB2ADM	SYSADM
DB2 Datasets:	DB2.V7R1M0	DB2.V8R1

DB2 Start and Stop Commands

To start DB2, Enter the following console command:

=> @START DB2

=> -START DB2

To stop DB2, Enter the following console command:

=> @STOP DB2

=> -STOP DB2

DB2 access

To access DB2 interactive functions from ISPF, Enter the option:

=> P.B

DB2 customization and usage

DB2 has been integrated into the CICS and IMS subsystems. The DB2 start option is in **CENTER.DB2**.

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CICS Transaction Server Subsystem

CICS Transaction Server Start and Stop Commands

To start CICS, enter the following console command:

=> S CPSMCAS
=> S CPSMCMAS
=> S CPSMWUI
=> S CICSAOR1
=> S CICSAOR2
=> S CICSTOR1
=> S CTGATE

To stop CICS, enter the following console commands:

=> F CICSAOR1,CEMT P SHUT
=> F CICSAOR2,CEMT P SHUT
=> F CICSTOR1,CEMT P SHUT
=> C CPSMWUI
=> C CPSMCMAS
=> P CPSMCAS
=> C CTGATE

CICS Transaction Server Access

To access CICS, complete the following steps:

1. From the VTAM Application Selection menu, select **CICS**

   The CICS Sign-on screen appears:

   CICS Sign-On Screen

```
+--------------------------------------+
|                                      |
|              CICS Sign-on            |
|                                      |
| Type your userid and password:       |
|                                      |
|          Userid   ==>                |
|          Password ==>                |
|          Language ==>                |
|      New Password ==>                |
|      New Password ==>                |
| PF 3=End                             |
| DFHCE3520 Please type your userid.   |
|                                      |
+--------------------------------------+
```

2. Enter your RACF defined user ID and password in **upper case**
3. To logoff CICS, clear the screen and then Enter the transaction:

   => CESF LOGOFF

CICS Transaction Server Customization/Usage

The CICS source tables are contained in the **CENTER.CICS** library. The CENTER.CICS library contains all the CICS table source and jobs to assemble and link each table. Under CICS, the PPT and PCT tables are not used. All program and transaction information must reside in the CICS System Definition data set: *DFHCSD*.

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IMS/ESA Subsystem

IMS Start and Stop Commands

To start IMS/ESA, complete the following steps:

1. Enter the following console commands:

   => S IMSASCI

=> S IMSAOM
=> S IMSARM
=> S IMSAIRLM
=> S IMSAMAST
=> S IMSATOC

```
-------------------------------------------------
|   .                                           |
|   .                                           |
|XX  DFS810A IMS READY 090047/2242418 IMS .IMS IMSA|
|(respond to the READY ETO message with the     |
| start option)                                 |
|   .                                           |
|   .                                           |
-------------------------------------------------
```

2. To complete the start, respond to the READY ETO message by Entering:

   => xx,/NRE CHECKPOINT 0 FORMAT ALL

   where *xx* is the reply ID.

```
-------------------------------------------------
|   .                                           |
|   .                                           |
|DFS994I RESTART COMPLETED.  IMSA               |
-------------------------------------------------
```

   If IMS/ESA fails to WARM start, do an emergency start by Entering:

   => xx,/ERE CHECKPOINT 0 BLDQ NOBMP OVERRIDE.

To stop IMS/ESA, respond to the IMS READY ETO message by Entering:

=> xx,/CHECKPOINT FREEZE
=> P IMSAIRLM
=> P IMSASC1
=> P IMSARM
=> P IMSAOM
=> P IMSATOC

IMS/ESA Access

To access IMS/ESA, complete the following steps:

1. From the VTAM Application Selection menu, select **IMS**

The IMS Sign-on screen appears:

Sign Command Screen for IMS

```
+-----------------------------------------+
|                                         |
|DFS3649A/SIGN COMMAND REQUIRED FOR IMS IMSA|
|                                         |
|DATE:  07/19/02     TIME: 14:43:22       |
|                                         |
|NODE NAME: IPSEU001                      |
|                                         |
|USERID:                                  |
|                                         |
|PASSWORD:                                |
|                                         |
|GROUP NAME:                              |
|NEW PASSWORD:                            |
|                                         |
|NO OUTPUT SECURITY AVAILABLE             |
|                                         |
+-----------------------------------------+
```

2. Enter your upper case RACF defined user ID and password
3. To logoff IMS/ESA, clear the screen and then Enter the transaction:

=> /RCL

IMS/ESA Customization/Usage

The following table lists the product name and the transaction ID used to activate a product. Some products are called or used only from within other products. When a product may not be directly invoked, its transaction ID entry in the table is blank.

IMS/ESA Libraries

The IMS/ESA libraries are:

Library	**Dataset**
SYSGEN	**CENTER.IMS**
Procedure	IMS.V8R1.PROCLIB
MPR	IMS.V8R1.JOBS

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WebSphere MQ Subsystem

WebSphere MQ Start and Stop Commands

To start WebSphere MQ, Enter the following console command:

=> WMQA START QMGR
=> WMQA START CHINIT

To stop WebSphere MQ, Enter the following console command:

=> WMQA STOP QMGR
=> WMQA STOP CHINIT

WebSphere MQ Access

To access WebSphere MQ from TSO, Enter the option:

=> P.D.M

To access WebSphere MQ from CICS, Enter the following CICS transaction ID:

=> CKQC

WebSphere MQ customization and usage

WebSphere MQ has been integrated into the CICS and IMS subsystems.

The z/OS TSO batch adapter and the CICS adapter have been installed and customized. The sample definitions that are required to run the product's IVP are also installed, but no additional customation has been performed.

The MQ customized files are in:

=> CENTER.MQM

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NetView/390 Subsystem

To start NetView/390, Enter the following console command:

=> S NETVSSI
=> S NETVIEW

To stop NetView/390, Enter the following console command:

=> Rxx,CLOSE IMMED
=> P NETVSSI

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WebSphere Application Server Subsystem

WebSphere Application Server stop and start commands

To start WAS, issue the following commands:

=> TRACE CT, WTRSTART=BBOWTR
=> S BBO5ACR,JOBNAME=BBOS001,ENV=CELL1.TESTMVS.BBOS001

To stop WAS, issue the following commands:

=> P BBODMNB

WebSphere Application Server access

To access WebSphere Application Server (WAS) from TSO, Enter the option:

=> P.U.W

The WAS Admininstration user ID is: WSADMIN.

WebSphere Application Server customization and usage

A base WAS with JMS support has been built on the DEMOpkg system. To update or change the configuration, use the online ISPF panels. The WAS customized configuration is saved in the dataset:

=> was.v5r1m0.config.savecfg

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Migration Aids

Various methods, tools, programs, and aids for migrating user data between upgrades of the z/OS system.

Export/Import User Catalogs

All newly created data sets must be placed on DASD volumes that contain a user catalog. This catalog structure makes it very easy to connect the data sets when a new z/OS system is received.

Backup DB2 Databases and Tables

If you have DB2 users who wish to backup their tables and databases, they must seek support from a database specialist experienced in data migration. No examples are provided.

Backup UNIX Files

To backup your UNIX HFS files and directories, use one of the following procedures:

- Create a tar backup file:
    1. In UNIX, create a tar backup of your files and directories
    2. Create an MVS PDS file of the tar backup by using the ISPF OGET command

       This PDS file can then be backed up and later restored using DFDSS.

    3. Place the tar file back into UNIX by using the ISPF OPUT command
    4. To recreate your files and directories, utar the file
- Create a PDS backup file:
    1. To create a MVS PDS file of your HFS directories, run job CENTER.SAMPLE.JCL(BACKHFS)

       This PDS can then be backed up and later restored using DFDSS.

    2. To restore your files, run job CENTER.SAMPLE.JCL(RESTHFS)
- Create backup files in a local HFS:
    1. Copy any local files into a local HFS that has a unique mount point

       This HFS can then be backed up and later restored using DFDSS.

    2. Mount your local HFS at its mount point

Backup User Data Sets

To backup your user data sets, complete the following steps:

1. Create a backup copy of your user files by running the job CENTER.SAMPLE.JCL(BACKUSER)

   The job backs up the files to tape.

2. Install the new z/OS DEMOpkg System
3. Restore the user files by using job CENTER.SAMPLE.JCL(RESTUSER)

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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 ....... 512M 1024M 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 is attached via the PROFILE EXEC on CTRMAINT 191 disk
*********************************************************
* 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                                     *
************************************************************
* Required Master Console at 463
 SPECIAL 470 3270
 SPECIAL 471 3270
 SPECIAL 472 3270
 SPECIAL 473 3270
************************************************************
* 191 MINIDISK (TESTMVS uses CTRMAINT'S 191 PROFILE EXEC
************************************************************
 LINK GUESTMNT 191 191 RR
```

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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 will need 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 DMTRES and DMTCAT volumes
3. Run the job **'CENTER.SAMPLE.JCL(RECATL)'** located on the DMTCAT volume

   It will calalog 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
```

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Appendix C: DEMOpkg Sysplex Operation

A two system sysplex environment has been defined. If you are running on a zSeries processor, you can also simulate a parallel sysplex environment.

Requirements

- z/OS 1.5 DEMOpkg
- z/VM 4.4 DEMOpkg
- z/VM user IDs:
    - TESTMVS (password: BIRD2GT)
    - TESTMVS2 (password: BIRD2GT)
    - TESTMVS3 (password: BIRD2GT)
    - GUESTMNT (password: BIRD2SP)

    - CFCONSOL (password: BIRD2SRV)
- z/VM exec's:
    - MVSDASD (to attach DASD to system)
    - TESTMVS (to IPL system)
- For a parallel sysplex, you need a zSeries processor

Steps

1. IPL z/VM
2. From a zSeries processor, AUTOLOG to CFCONSOL to start the CFSM virtual machine
3. Attach MVS DASD with GUESTMNT's MVSDASD exec
4. IPL TESTMVS
5. IPL TESTMVS2
6. IPL TESTMVS3

IPL Command

To IPL the sysplex environment, select the Load SP member of SYS1.IPLPARM:

=> IPL 01C0 CLEAR LOADPARM 01C1SPM

Sysplex datasets

Dataset	Description
SYS1.IPLPARM	Load SP
CENTER.SYSPLEX.PARMLIB	SP members
SYS1.PARMLIB	00 members
CENTER.SYSPLEX.PROCLIB	SP procedures
SYS1.PROCLIB	SP procedures

Sysplex resources

- Sysplex CDS files on DMTOS1/DMTOS2
- Spool for JES2 mas on DMTCAT
- Page volumes on DMTCAT/DMT0S3
- VCTC's: 530/531
- LCL terminals: 470, 471
- OSA: 5DE, 5DF

Commands

Parameters	Command
Console:	=> route TESTMVS2, DA, L

SDSF Log:	=> SYSID MVS1
System shutdown:	=> $PJES2,abend
Shutdown second system:	=> V XCF, TESTMVSX, OFFLINE => r xx, sysname=TESTMVSX

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Appendix D: HCD Report

Report is formatted for viewing online.

```
**********************************************************************************************************************************
 **********************************************************************************************************************************
 **                                                                                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                          H C D  REPORT FACILITY                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                       TIME:  10:28    DATE:  2001-10-23                                                      **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
 **                              IODF NAME:          SYS1.IODF00                                                                 **
 **                                                                                                                              **
 **                              IODF VOLUME:        DMTCAT                                                                      **
 **                                                                                                                              **
 **                              DESCRIPTION:                                                                                    **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
 **                              REPORTS LIMITED:    CSS REPORT                                                                  **
 **                                                                                                                              **
 **                                                      PROCESSOR ID:                                                           **
 **                                                      PARTITION NAME:                                                         **
 **                                                                                                                              **
 **                                                                                                                              **
 **                                                  SWITCH REPORT                                                               **
 **                                                                                                                              **
 **                                                      SWITCH ID:                                                              **
 **                                                                                                                              **
 **                                                                                                                              **
```

```
**                                                OS REPORT                                                       **
**                                                                                                                **
**                                                    OS CONFIGURATION ID:                                        **
**                                                                                                                **
**                                                                                                                **
**                                                CTC CONNECTION REPORT                                           **
**                                                                                                                **
**                                                    PROCESSOR ID:                                               **
**                                                    PARTITION NAME:                                             **
**                                                                                                                **
**                                                                                                                **
**                                                I/O PATH REPORT                                                 **
**                                                                                                                **
**                                                    PROCESSOR ID:                                               **
**                                                    PARTITION NAME:                                             **
**                                                    OS CONFIGURATION ID:                                        **
**                                                    SYSTEM NAME:                      SYSPLEX ID:               **
**                                                                                                                **
**                                                                                                                **
****************************************************************************************************************************
****************************************************************************************************************************
1
****************************************************************************************************************************
****************************************************************************************************************************
**                                                                                                                **
**                                     H C D  REPORT                          CHAPTER                          **
**                                                                                                                **
**                                                                                                                **
**                                PROCESSOR SUMMARY REPORT                      A       *                        **
**                                                                                                                **
**                                PARTITION REPORT                              B       *                        **
**                                                                                                                **
**                                IOCDS REPORT                                  C       *                        **
**                                                                                                                **
**                                CHANNEL PATH SUMMARY REPORT                   D       *                        **
**                                                                                                                **
**                                CHANNEL PATH DETAIL REPORT                    E       *                        **
**                                                                                                                **
**                                CF CHANNEL PATH CONNECTIVITY REPORT           F       *                        **
**                                                                                                                **
**                                CONTROL UNIT SUMMARY REPORT                   G       *                        **
**                                                                                                                **
**                                CONTROL UNIT DETAIL REPORT                    H       *                        **
**                                                                                                                **
**                                DEVICE SUMMARY REPORT                         I       *                        **
**                                                                                                                **
**                                DEVICE DETAIL REPORT                          J       *                        **
**                                                                                                                **
**                                SWITCH SUMMARY REPORT                         K       *                        **
**                                                                                                                **
**                                SWITCH DETAIL  REPORT                         L       *                        **
```

```
 **                                                                                                                    **
 **                                SWITCH CONFIGURATION SUMMARY REPORT             M       *                          **
 **                                                                                                                    **
 **                                SWITCH CONFIGURATION DETAIL REPORT              N       *                          **
 **                                                                                                                    **
 **                                OPERATING SYSTEM SUMMARY REPORT                 O       *                          **
 **                                                                                                                    **
 **                                OS  DEVICE REPORT                               P       *                          **
 **                                                                                                                    **
 **                                OS  DEVICE DETAIL REPORT                        Q       *                          **
 **                                                                                                                    **
 **                                EDT REPORT  (MVS ONLY)                          R       *                          **
 **                                                                                                                    **
 **                                OS CONSOLE REPORT                               S       *                          **
 **                                                                                                                    **
 **                                SUPPORTED HARDWARE REPORT                       T                                  **
 **                                                                                                                    **
 **                                CTC CONNECTION REPORT                           U       *                          **
 **                                                                                                                    **
 **                                I/O PATH REPORT                                 V                                  **
 **                                                                                                                    **
 **                                I/O DEFINITION REFERENCE                        W                                  **
 **                                                                                                                    **
 **                                THE REPORTS MARKED WITH "*" WERE SELECTED FOR PRINTING                              **
 **                                                                                                                    **
 **                                                                                                                    **
 ************************************************************************************************************************
 ************************************************************************************************************************
1                                    DEVICE SUMMARY REPORT                        TIME: 10:28  DATE: 2001-10-23  PAGE I-   1
-   --- DEVICE ---    DEVICE                                                    SERIAL
     NUMBER,RANGE    TYPE-MODEL            ATTACHING CONTROL UNITS             NUMBER       DESCRIPTION                      VOLSER
    _____________  _____________  |____|____|____|____|____|____|____|____|  __________  _________________________________  ______
0      000C         2540R-1
       000D         2540P-1
       000E         1403-N1
       01C0,32      3390
       0300,32      3390
       0340,32      3390
       0366,2       3480
       0460,15      3279-2B
       046F         3286-2
       0470,15      3279-2B
       047F         3286-2
       0530,16      CTC
       0550,16      3490
       0560         3480
       05CE,2       CTC
       05DE,2       CTC
       05EE,2       CTC
       0600,32      3390
       0700,16      3270-X
```

```
        0860,16      3380
        0900,16      3270-X
        0990,10      OSA
        099A         OSAD
        0B00,16      AFP1-0
        0F00,32      3270-X
        A080,16      3490
        FC50         3490
1                                    DEVICE DETAIL REPORT                          TIME: 10:28  DATE: 2001-10-23  PAGE J-   1
- DEVICE       DEVICE        PROCESSOR  UNIT TIME STATUS  PREFERRED      CNTL UNIT       CHPID.        PARTITION NUMBERS
  NUMBER       TYPE-MODEL      ID       ADDR OUT? DETECT?   CHPID    PROT NUMBER CUADD   LINK   |1|2|3|4|5|6|7|8|9|A|B|C|D|E|F|  SIDE
  ___________  ____________  _________  ____ ____ _______ _________  ____ ______ _____  |__.__| _____________________________  ____
0  000C         2540R-1
   ---------------------------------------------------------------------------------------------------------------------------------
    000D        2540P-1
   ---------------------------------------------------------------------------------------------------------------------------------
    000E        1403-N1
   ---------------------------------------------------------------------------------------------------------------------------------
    01C0,32     3390
   ---------------------------------------------------------------------------------------------------------------------------------
    0300,32     3390
   ---------------------------------------------------------------------------------------------------------------------------------
    0340,32     3390
   ---------------------------------------------------------------------------------------------------------------------------------
    0366,2      3480
   ---------------------------------------------------------------------------------------------------------------------------------
    0460,15     3279-2B
   ---------------------------------------------------------------------------------------------------------------------------------
    046F        3286-2
   ---------------------------------------------------------------------------------------------------------------------------------
    0470,15     3279-2B
   ---------------------------------------------------------------------------------------------------------------------------------
    047F        3286-2
   ---------------------------------------------------------------------------------------------------------------------------------
    0530,16     CTC
   ---------------------------------------------------------------------------------------------------------------------------------
    0550,16     3490
   ---------------------------------------------------------------------------------------------------------------------------------
    0560        3480
   ---------------------------------------------------------------------------------------------------------------------------------
    05CE,2      CTC
   ---------------------------------------------------------------------------------------------------------------------------------
    05DE,2      CTC
   ---------------------------------------------------------------------------------------------------------------------------------
    05EE,2      CTC
   ---------------------------------------------------------------------------------------------------------------------------------
    0600,32     3390
   ---------------------------------------------------------------------------------------------------------------------------------
    0700,16     3270-X
   ---------------------------------------------------------------------------------------------------------------------------------
    0860,16     3380
```

```
   ---------------------------------------------------------------------------------------------------------------------------
    0900,16    3270-X
   ---------------------------------------------------------------------------------------------------------------------------
    0990,10    OSA
   ---------------------------------------------------------------------------------------------------------------------------
    099A       OSAD
   ---------------------------------------------------------------------------------------------------------------------------
    0B00,16    AFP1-0
   ---------------------------------------------------------------------------------------------------------------------------
1                                      DEVICE DETAIL REPORT                          TIME: 10:28  DATE: 2001-10-23  PAGE J-   2
- DEVICE       DEVICE         PROCESSOR  UNIT TIME STATUS  PREFERRED      CNTL UNIT       CHPID.        PARTITION NUMBERS
  NUMBER       TYPE-MODEL       ID       ADDR OUT? DETECT?   CHPID    PROT NUMBER CUADD   LINK   |1|2|3|4|5|6|7|8|9|A|B|C|D|E|F|  SIDE
  __________   ______________   _________  ____ ____ _______ _________  ____ ______ _____  |__.__| _____________________________  ____
0  0F00,32    3270-X
   ---------------------------------------------------------------------------------------------------------------------------
    A080,16    3490
   ---------------------------------------------------------------------------------------------------------------------------
    FC50       3490
   ---------------------------------------------------------------------------------------------------------------------------
1                                    OPERATING SYSTEM SUMMARY REPORT                 TIME: 10:28  DATE: 2001-10-23  PAGE O-   1
-   OPERATING
    SYSTEM ID   TYPE        DESCRIPTION
    _________   _________   ____________________________________
0   MVS0393     MVS         DDC OS390 DEMOpkg 02/99
1                                       MVS DEVICE REPORT                          TIME: 10:28  DATE: 2001-10-23  PAGE P-   1
-   OPERATING SYSTEM CONFIGURATION ID:  MVS0393
-DEV#,RANGE  TYPE-MODEL    BASE  UCB-TYPE  ERP-NAME  DDT-NAME  MLT-NAME  OPT  UIM-NAME  ATI  AL  SH  SW  MX  MI
 __________ _____________  ____  ________  ________  ________  ________  ___  ________  ___  __  __  __  __  __
0000C       2540R-1             10000801  IGE0001C  IECVDDT5  IEAMLT34       CBDUS012  00              Y
 000D       2540P-1             10000802  IGE0001C  IECVDDT5  IEAMLT34       CBDUS012  00              Y
 000E       1403-N1             10800808  IGE0000G  DDT1403   IEAMLT01       CBDUS012  00              Y
 01C0,32    3390                3030200F  IECVDERP  IGGDDTA1  IEAMLT02       CBDUS002  40              Y
 0300,32    3390                3030200F  IECVDERP  IGGDDTA1  IEAMLT02       CBDUS002  40              Y
 0340,32    3390                3030200F  IECVDERP  IGGDDTA1  IEAMLT02       CBDUS002  40              Y
 0366,2     3480                78008080  IGE0001E  DDTR3480  IEAMLT08       CBDUS005  00              Y
 0460,15    3279-2B             12501009  IGE0010E  IECVDDT4  IEAMLT05       CBDUS004  1C
 046F       3286-2              1200100B  IGE0010E  IECVDDT4  IEAMLT05       CBDUS031  1C
 0470,15    3279-2B             12501009  IGE0010E  IECVDDT4  IEAMLT05       CBDUS004  1C
 047F       3286-2              1200100B  IGE0010E  IECVDDT4  IEAMLT05       CBDUS031  1C
 0530,3     CTC                 10014100  IGE0002E  IOSVDDTP  IEAMLT24       CBDUS014  2C
 0533,13    CTC                 10014100  IGE0002E  IOSVDDTP  IEAMLT24       CBDUS014  2C
 0550,16    3490                78048081  IGE0001E  DDTR3480  IEAMLT08       CBDUS005  00              Y
 0560       3480                78008080  IGE0001E  DDTR3480  IEAMLT08       CBDUS005  00              Y
 05CE,2     CTC                 10014100  IGE0002E  IOSVDDTP  IEAMLT24       CBDUS014  2C
 05DE,2     CTC                 10014100  IGE0002E  IOSVDDTP  IEAMLT24       CBDUS014  2C
 05EE,2     CTC                 10014100  IGE0002E  IOSVDDTP  IEAMLT24       CBDUS014  2C
 0600,32    3390                3030200F  IECVDERP  IGGDDTA1  IEAMLT02       CBDUS002  40              Y
 0700,16    3270-X              12001009  IGE0010E  IECVDDT4  IEAMLT05       CBDUS004  1C
 0860,16    3380                3030200E  IECVDERP  IGGDDT01  IEAMLT02       CBDUS002  40              Y
 0900,16    3270-X              12001009  IGE0010E  IECVDDT4  IEAMLT05       CBDUS004  1C
 0990,10    OSA                 00004105  IGE0002E  IOSVDDTS  IOSVMLTO       CBDUS058  2C
```

```
 099A       OSAD                00004106  IGE0002E  IOSVDDTD  IOSVMLTO       CBDUS058   2C
 0B00,16    AFP1-0              0000080F  IGE0000E  IECVAFP1  MLTAFP1        CBDUS022   00
 0F00,32    3270-X              12001009  IGE0010E  IECVDDT4  IEAMLT05       CBDUS004   1C
 A080,16    3490                78048081  IGE0001E  DDTR3480  IEAMLT08       CBDUS005   00          Y
 FC50       3490                78048081  IGE0001E  DDTR3480  IEAMLT08       CBDUS005   00          Y
1                                    MVS DEVICE REPORT                          TIME: 10:28  DATE: 2001-10-23  PAGE P-   2
-       KEY            KEY DESCRIPTION
        ---            ---------------
0       DEV#,RANGE  -  DEVICE NUMBER, COUNT OF DEVICES (DECIMAL)
        TYPE-MODEL  -  DEVICE NAME
        BASE        -  BASE DEVICE NUMBER FOR MULTIPLE EXPOSURE DEVICES
        UCB-TYPE    -  UCB TYPE BYTES
        ERP-NAME    -  ERROR RECOVERY PROGRAM
        DDT-NAME    -  DEVICE DESCRIPTOR TABLE
        MLT-NAME    -  MODULE LIST TABLE
        OPT         -  OPTIONAL MLT INDICATOR
        UIM-NAME    -  UNIT INFORMATION MODULE SUPPORTING THE DEVICE
0       ATI         -  ATTENTION TABLE INDEX (UCBATI)
        AL          -  ALTERNATE CONTROL UNIT (UCBALTCU)
        SH          -  SHARED UP OPTION (UCBSHRUP)
        SW          -  DEVICE CAN BE SWAPPED BY DDR (UCBSWAPF)
        MX          -  DEVICE HAS MULTIPLE EXPOSURES (UCBMTPXP)
        MI          -  MIH PROCESSING SHOULD BE BYPASSED (UCBMIHPB)
0       O           -  MLT IS OPTIONAL
        Y           -  DEVICE SUPPORTS THIS FEATURE
        BLANK       -  DEVICE DOES NOT SUPPORT THIS FEATURE
-
-              TOTAL NUMBER OF DEVICES BY CLASS
               --------------------------------
0       CLASS NAME             CLASS TYPE    DEVICE COUNT
        ----------             ----------    ------------
0       TAPE                       80              36
        COMMUNICATION DEVICES      40               0
        C-T-C                      41              33
        DASD                       20             144
        GRAPHICS                   10              96
        UNIT RECORD                08              19
        CHARACTER READERS          04               0
-       TOTAL NUMBER OF I/O DEVICES DEFINED BY THIS I/O CONFIGURATION     328
1                                      MVS DEVICE DETAIL REPORT                 TIME: 10:28  DATE: 2001-10-23  PAGE Q-   1
-   OPERATING SYSTEM CONFIGURATION ID:  MVS0393
-   --- DEVICE ---      DEVICE
     NUMBER,RANGE    TYPE - MODEL     PARAMETER                                  FEATURE
    _____________   _____________   ____________________________________   ____________________________________________________
0      000C          2540R-1          OFFLINE=NO
    ------------------------------------------------------------------------------------------------------------------------
       000D          2540P-1          OFFLINE=NO
    ------------------------------------------------------------------------------------------------------------------------
       000E          1403-N1          OFFLINE=NO                                 UNVCHSET
    ------------------------------------------------------------------------------------------------------------------------
       01C0,32       3390             OFFLINE=NO,DYNAMIC=YES                     SHARED
```

0300,32	3390	OFFLINE=NO,DYNAMIC=YES	SHARED
0340,32	3390	OFFLINE=NO,DYNAMIC=YES	SHARED
0366,2	3480	OFFLINE=NO,DYNAMIC=YES,LOCANY=NO, LIBRARY=NO,AUTOSWITCH=NO	
0460,15	3279-2B	OFFLINE=NO	DOCHAR,AUDALRM,NUMLOCK,SELPEN,EBKY3277, KB78KEY
046F	3286-2	OFFLINE=NO	DOCHAR
0470,15	3279-2B	OFFLINE=NO	DOCHAR,AUDALRM,NUMLOCK,SELPEN,EBKY3277, KB78KEY
047F	3286-2	OFFLINE=NO	DOCHAR
0530,3	CTC	OFFLINE=NO	370
0533,13	CTC	OFFLINE=NO	370
0550,16	3490	OFFLINE=YES,DYNAMIC=YES,LOCANY=NO, LIBRARY=NO,AUTOSWITCH=NO	SHARABLE
0560	3480	OFFLINE=NO,DYNAMIC=YES,LOCANY=NO, LIBRARY=NO,AUTOSWITCH=NO	
05CE,2	CTC	OFFLINE=NO	370
05DE,2	CTC	OFFLINE=NO	370
05EE,2	CTC	OFFLINE=NO	370
0600,32	3390	OFFLINE=NO,DYNAMIC=YES	SHARED
0700,16	3270-X	OFFLINE=NO,DYNAMIC=YES,LOCANY=NO	DOCHAR
0860,16	3380	OFFLINE=NO,DYNAMIC=YES	SHARED
0900,16	3270-X	OFFLINE=NO,DYNAMIC=YES,LOCANY=NO	DOCHAR

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- OPERATING SYSTEM CONFIGURATION ID: MVS0393

--- DEVICE --- NUMBER,RANGE	DEVICE TYPE - MODEL	PARAMETER	FEATURE
0990,10	OSA	OFFLINE=NO,DYNAMIC=YES,LOCANY=NO	
099A	OSAD	OFFLINE=NO,DYNAMIC=YES,LOCANY=NO	

```
   0B00,16       AFP1-0           OFFLINE=NO
  ------------------------------------------------------------------------------------------------------------------------
   0F00,32       3270-X           OFFLINE=NO,DYNAMIC=YES,LOCANY=NO              DOCHAR
  ------------------------------------------------------------------------------------------------------------------------
   A080,16       3490             OFFLINE=YES,DYNAMIC=YES,LOCANY=NO,            SHARABLE
                                  LIBRARY=NO,AUTOSWITCH=NO
  ------------------------------------------------------------------------------------------------------------------------
   FC50          3490             OFFLINE=YES,DYNAMIC=YES,LOCANY=NO,            SHARABLE
                                  LIBRARY=NO,AUTOSWITCH=NO
  ------------------------------------------------------------------------------------------------------------------------
1                                      E D T   REPORT                    TIME: 10:28  DATE: 2001-10-23  PAGE R-   1
-  OPERATING SYSTEM CONFIGURATION ID:  MVS0393
   EDT IDENTIFIER: 00   DESCRIPTION:
-                                                 AFFINITY  ALLOCATION   ASSOCIATED
   NAME         NAME TYPE  VIO  TOKEN  PREF       INDEX    DEVICE TYPE  GENERICS                DEVICE NUMBER LIST
  _________    _________  ___  ______  _______  _________  ___________  __________  _____________________________________________
0 3390         GENERIC                  280      FFFF      3010200F                01C0-01DF  0300-031F  0340-035F  0600-061F
  ------------------------------------------------------------------------------------------------------------------------
  3380         GENERIC                  290      FFFF      3010200E                0860-086F
  ------------------------------------------------------------------------------------------------------------------------
  3490         GENERIC                 1000      0080      78048081                0550-055F  A080-A08F  FC50
  ------------------------------------------------------------------------------------------------------------------------
  3480         GENERIC                 1100      0008      78008080                0366-0367  0560
  ------------------------------------------------------------------------------------------------------------------------
  AFP1         GENERIC                 1750      FFFF      0000080F                0B00-0B0F
  ------------------------------------------------------------------------------------------------------------------------
  1403         GENERIC                 2100      FFFF      10000808                000E
  ------------------------------------------------------------------------------------------------------------------------
  2540         GENERIC                 2800      FFFF      10000801                000C
  ------------------------------------------------------------------------------------------------------------------------
  2540-2       GENERIC                 2900      FFFF      10000802                000D
  ------------------------------------------------------------------------------------------------------------------------
  3277-2       GENERIC                 3800      FFFF      12001009                0460-046E  0470-047E  0700-070F  0900-090F  0F00-0F1F
  ------------------------------------------------------------------------------------------------------------------------
  3286-2       GENERIC                 4400      FFFF      1200100B                046F       047F
  ------------------------------------------------------------------------------------------------------------------------
  OSA          GENERIC                 8360      FFFF      00004105                0990-0999
  ------------------------------------------------------------------------------------------------------------------------
  OSAD         GENERIC                 8361      FFFF      00004106                099A
  ------------------------------------------------------------------------------------------------------------------------
  CTC          GENERIC                 8400      FFFF      00004100                0530-053F  05CE-05CF  05DE-05DF  05EE-05EF
  ------------------------------------------------------------------------------------------------------------------------
  DLIB         ESOTERIC                 290      FFFF      3010200E    3380        0860
  ------------------------------------------------------------------------------------------------------------------------
  PRT1         ESOTERIC                2100      FFFF      10000808    1403        000E
  ------------------------------------------------------------------------------------------------------------------------
  PUN1         ESOTERIC                2900      FFFF      10000802    2540-2      000D
  ------------------------------------------------------------------------------------------------------------------------
  RDR1         ESOTERIC                2800      FFFF      10000801    2540        000C
  ------------------------------------------------------------------------------------------------------------------------
  SYSDA        ESOTERIC    Y            280      FFFF      3010200F    3390        01C0-01C1
```

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                                    290    FFFF     3010200E    3380        0862-0863
  ------------------------------------------------------------------------------------------------------------------------
  SYSSQ       ESOTERIC                280    FFFF     3010200F    3390        01C0-01C1
  ------------------------------------------------------------------------------------------------------------------------
  SYSTS       ESOTERIC                280    FFFF     3010200F    3390        01C0-01C1
  ------------------------------------------------------------------------------------------------------------------------
  TAPE        ESOTERIC               1000    0080     78048081    3490        0550-055F
  ------------------------------------------------------------------------------------------------------------------------
  VIO         ESOTERIC    Y           280    FFFF     3010200F    3390        01C0-01C1
                                      290    FFFF     3010200E    3380        0862-0863
  ------------------------------------------------------------------------------------------------------------------------
1                                        E D T   REPORT                        TIME: 10:28  DATE: 2001-10-23  PAGE R-   2
-   OPERATING SYSTEM CONFIGURATION ID:  MVS0393
    EDT IDENTIFIER: 00   DESCRIPTION:
-                                      AFFINITY  ALLOCATION   ASSOCIATED
  NAME        NAME TYPE  VIO  TOKEN  PREF     INDEX    DEVICE TYPE  GENERICS                DEVICE NUMBER LIST
  _________   _________  ___  _____  _____  ________  ___________  _________  ____________________________________________________
0 WORK        ESOTERIC                 290    FFFF     3010200E    3380        0860
  ------------------------------------------------------------------------------------------------------------------------
  3400-9      G/GENERIC               1100    0008     78008080    3480        0366-0367  0560
  ------------------------------------------------------------------------------------------------------------------------
  SYSALLDA    G/ESOTERIC               280    FFFF     3010200F    3390        01C0-01DF  0300-031F  0340-035F  0600-061F
                                       290    FFFF     3010200E    3380        0860-086F
  ------------------------------------------------------------------------------------------------------------------------
  SYS348XR    G/ESOTERIC              1000    0080     78048081    3490        0550-055F  A080-A08F  FC50
  ------------------------------------------------------------------------------------------------------------------------
  SYS3480R    G/ESOTERIC              1000    0080     78048081    3490        0550-055F  A080-A08F  FC50
                                      1100    0008     78008080    3480        0366-0367  0560
1                                      N I P C O N   REPORT                    TIME: 10:28  DATE: 2001-10-23  PAGE S-   1
-   OPERATING SYSTEM CONFIGURATION ID:  MVS0393
-                                  NIP CONSOLE DEVICES
                                   _____________________
-                          DEVICE #        TYPE-MODEL
                           ________       ____________
0                          0460           3279-2B
                           0461           3279-2B
                           0462           3279-2B
                           0463           3279-2B
                           0700           3270-X
                           0900           3270-X
                           0F00           3270-X
1
 END OF HCD REPORT
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