z/OS Introduction and Workshop

Configuration
Unit Objectives

After completing this unit, you should be able to:

• Describe IPL process
• Describe IPL device and LOADPARM device
• Describe Support Element and HMC
• Describe System Parameters/Definitions
• Determine IPL and LOAPARM device using MVS commands
• Determine LOADPARM member read at IPL time
• Determine parameter libraries read at IPL time
• Determine parameter library members read at IPL time
System Initialization

The system operator supplies parameters instructing the system to load

The bootstrap code on the IPL volume is loaded into storage at address 0 and control passed to it

The bootstrap reads the IPLTEXT program IEAIPL00 which is given control and the complex task of loading the system starts
Hardware Management Console (HMC) & Support Element (SE)
Disk Device Address of SYSRES and SYS1.IPLPARM

Image: Z0S2
Load type:  Normal  Clear

Store status
Load address: 1000
Load parameter: 0CE3W1
Time-out value: 60 60 to 600 seconds

OK  Reset  Cancel  Help
Initial Program Load (IPL)

Disk Device Address

1000

- Bootstrap (cylinder 0)
- IPLTEXT immediately following bootstrap
Initial Program Load (IPL)

IPL 1000 LOADPARM 0CE3W1

Disk Device Address

0CE3
SYSx.IPLPARM LOAD W1

Disk Device Address

1000

Bootstrap (cylinder 0)
IPLTEXT immediately following bootstrap
**System Definitions**

**IPL loadparm** → **SYS1.IPLPARM(LOADW1)** → **PARMLIB(IEASYSxx)**

**SYS1.IPLPARM(LOADW1)**
- IEASYM (W1,SV,VN)
- INITQA 0000K 0512K
- IODF 00 SYS1 MVS 00 Y
- NUCLEUS 1
- NUCLST SV N
- SYSCAT VPMVSB113CMASTERV.CATALOG

**SYSPARM (00,LV,SV,VN)**
- SYSPLEX SVSCPLEX
- PARMLIB VENDOR.PARMLIB
- PARMLIB SVTSC.PARMLIB
- PARMLIB LVL0.PARMLIB
- PARMLIB SYS1.PARMLIB

*Search PARMLIB concatenation for IEASYSxx PDS member names*
IEAIPL00 & Storage Map for Address Spaces

IEAIPL00 prepares the system by clearing central storage to zeroes then defines storage areas for the master scheduler.

SYS1.NUCLEUS is located and a series of modules loaded which construct the normal environment of control blocks and subsystems.

The first part of the Nucleus Initialization Program, NIP, is then loaded.
Data Areas and Control Blocks

4K pages of system information

4K page of system information can reside in a ‘frame’ or ‘slot’

Some 4K pages of system information are marked as a permanent resident in real storage – ‘frame’ only
Systems are operational and connected to CF (Coupling Facility)
System Definitions

z/OS is highly configurable to best serve a customers workload

System definitions (system parameters) are read during z/OS initialization

The values of many system parameters can be changed dynamically

Default values exist for the majority of system parameters

More matured systems change the defaults as their workloads change

It is important to develop a back out plan for any system definition change
System Initialization (IEE252I messages)

Lab System

```
04/16/2007 0W 0

SDSF SYSLOG 4346.101 SOW1 SOW1 04/16/2007 0W 0
COMMAND INPUT ===> _
SCROLL ===> CSR

******************************************************************************
** TOP OF DATA **************************************************************
******************************************************************************
0000 IEE042I SYSTEM LOG DATA SET INITIALIZED
0290 CONTROL M,EXIT=Y IEAVN701 - INTERNALLY ISSUED K M
0090 IEA590I WTO USER EXIT IEAVMEXIT NOT FOUND
0290 IEA371I SYS1.PARMLIB ON DEVICE OCE3 SELECTED FOR IPL PARAMETERS
0290 IEA246I LOAD ID W1 SELECTED
0290 IEA246I NUCLST ID SV SELECTED
0290 IEA519I IOF DSN = SYS1.10DF00
0290 IEA520I CONFIGURATION ID = MVS . IODF DEVICE NUMBER = OCE3
0290 IEA091I NUCLEUS 1 SELECTED
0290 IEA093I MODULE IEANUC01 CONTAINS UNRESOLVED WEAK EXTERNAL REFERENCE
0290 IFFIOM
0290 IEA093I MODULE IEANUC01 CONTAINS UNRESOLVED WEAK EXTERNAL REFERENCE
0290 IEDQATTN
0290 IEA093I MODULE IEANUC01 CONTAINS UNRESOLVED WEAK EXTERNAL REFERENCE
0290 IECTATEN
0290 IEA370I MASTER CATALOG SELECTED IS MASTERY.CATALOG
0290 IEE252I MEMBER IEASYMMI FOUND IN LVLO.PARMLIB
0290 IEE252I MEMBER IEASYMYSV FOUND IN SVTSC.PARMLIB
0290 IEE252I MEMBER IEASYMVN FOUND IN VENDOR.PARMLIB
0290 *IEA0081 SYSTEM PARMS FOLLOW FOR z/OS 01.06.01 JDD7759 020
0290 IEASYSO0
0290 IEASYSLV
0290 IEASYSV
0290 IEASYSVN
0290 IEE252I MEMBER IEASYSO0 FOUND IN LVLO.PARMLIB
0290 IEE252I MEMBER IEASYSLV FOUND IN LVLO.PARMLIB
0290 IEE252I MEMBER IEASYSV FOUND IN SVTSC.PARMLIB
0290 IEE252I MEMBER IEASYSVN FOUND IN SVTSC.PARMLIB
```
System Log (Trail of IEE252I messages)

IEE252I MEMBER *member* FOUND IN *parmdsname*
Explanation: This is an informational message that appears only in the hardcopy log when member *member* is found in parmlib dataset *parmdsname*

In the message text:

*member* is the parmlib member name that is being processed.
*parmdsname* is the parmlib data set where member *member* is located.

System Action:
The system continues processing.

System Programmer Response:
Check the hardcopy to see if all the members in parmlib specified in LOADxx or in operator input are being used correctly and are found in the correct parmlib data set.

Source: Master scheduler, IPL/NIP
System Definitions

**D IPLINFO**
SYSTEM IPLLED AT 08.41.25 ON 01/29/2007
RELEASE z/OS 01.07.01 LICENSE = z/OS
USED LOADW1 IN SYS1.IPLPARM ON 0CE3
ARCHLVL = 2 MTLSHARE = N
IEASYM LIST = (W1,SV,VN)
IEASYS LIST = (00,LV,SV,VN) (OP)
IODF DEVICE 0CE3
IPL DEVICE 1000 VOLUME VIMVSB

**D PARMLIB**
PARMLIB DATA SETS SPECIFIED AT IPL
ENTRY FLAGS VOLUME DATA SET
1 S VPMVSD VENDOR.PARMLIB
2 S VTMVSG SVTSC.PARMLIB
3 S VTLVL0_LVL0.PARMLIB
4 D VIMVSB SYS1.PARMLIB
SYS1.IPLPARM LOADxx member startup parameters
Display IPLINFO and system PARMLIB concatenation

Display IPLINFO

```
TOP OF DATA

16:13:45.10  ISF031I CONSOLE ZIBM030 ACTIVATED
16:13:48.88  -D IPLINFO
16:13:48.91  IEE254I 16.13.48 IPLINFO DISPLAY 178
            SYSTEM IPLED AT 14.10.36 ON 04/16/2007
            RELEASE z/OS 01.06.01 LICENSE = z/OS
            USED LOADW1 IN SYS1.IPLPARM ON 0CE3
            ARCHLVL = 2  MTSHARE = N
            IEASYM LIST = (W1,SV,WN)
            IEASYS LIST = (00,LV,SV,WN) (OP)
            IODF DEVICE 0CE3
            IPL DEVICE 1000 VOLUME VIMVSE
16:13:51.51  -D PARMLIB
16:13:51.54  IEE251I 16.13.51 PARMLIB DISPLAY 180
            PARMLIB DATA SETS SPECIFIED
            AT IPL
            ENTRY  FLAGS  VOLUME  DATA SET
            1       S    VPMVSD  VENDOR.PARMLIB
            2       S    VTMVSG  SVTSC.PARMLIB
            3       S    VTLVLO  LVLO.PARMLIB
            4       D    VIMVSD  SYS1.PARMLIB
```

BOTTOM OF DATA
Master JCL for Master Scheduler
CLIST to easily find system PARMLIB and PROCLIB members
View system $PARMLIB concatenation

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IEASY00 is read first. IEASY00 has few parameters
IEASYSLV is read 2nd. IEASYSLV has more parameters.
IEASYSSV is read 3rd-- duplicate parm values are overridden
IEASYSVN the last member read has only one PARMLIB entry
System Libraries

SYS1.LINKLIB prime system software library
–LNKLST concatenation

SYS1.LPALIB system subroutines

SYS1.NUCLEUS basic supervisor modules

SYS1.PROCLIB system procedure JCL
–PROCLIB concatenation

SYS1.PARMLIB control parameters
–PARMLIB concatenation
System search order for programs

Programs (load modules) must be in central storage and therefore in the virtual storage of the address space before they can run

System has a defined search order for a newly requested program
Search order for programs

1) JCL STEPLIB (if present)
2) JCL JOBLIB (if present)
3) Link Pack Area (LPA)
   Fixed LPA (FLPA)
   Modified LPA (MLPA)
   Pageable LPA (PLPA)
4) LINKLST (Concatenated Group of Partitioned Data Sets)
The Link Pack Area (LPA) is built at IPL time from the modules defined in the LPALSTxx member of parmlib.

SYS1.LPALIB is always the first library used unless overridden by a SYSLIB statement.

Modules are loaded into common storage at IPL time and so are available to all address spaces.
SYS1.LPALIB

Fixed LPA comprises those modules defined in IEAFIXxx that are fixed in central storage.

Pageable LPA comprises most other modules whose pages are eligible to be stolen.

Modified LPA has modules which are temporary replacements for PLPA modules and is searched first.
JES JOB JCL Procedure Library

**JES2 JCL Procedure Libraries are searched for JOB and STC PROCs**

//PROC00 DD DSN=SYS1.PROCLIB,DISP=SHR
// PROC01 DD DSN=SYS1.PROC2,DISP=SHR
//PROCnn DD DSN=SYS1.LASTPROC,DISP=SHR
...

**JOB JCL can have personal JCL Procedure Libraries search first**

//MYJOB JOB
//MYLIBS JCLLIB ORDER=(MY.PROCLIB.JCL,YOUR.PROCLIB.JCL)
//S1 EXEC PROC=MYPROC1
...

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System Symbols

System symbols allow the use of a shared PARMLIB by two or more systems.

Each symbol has a name which can be used in various places and then substituted at IPL time.

Major uses are indirect cataloging and substituting system specific datasets such as the page data sets.

Static and Dynamic System Symbols
# Static and Dynamic System Symbols

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<th>SYMBOL</th>
<th>Value</th>
<th>Type</th>
<th>Symbol</th>
<th>Value</th>
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Manuals

MVS Initialization and Tuning Guide

MVS Initialization and Tuning Reference

JES2 Initialization and Tuning Guide

JES2 Initialization and Tuning Reference
Unit Summary

Having completed this unit, you should be able to:

✓ Describe IPL process
✓ Describe IPL device and LOADPARM device
✓ Describe Support Element and HMC
✓ Describe System Parameters/Definitions
✓ Determine IPL and LOAPARM device using MVS commands
✓ Determine LOADPARM member read at IPL time
✓ Determine parameter libraries read at IPL time
✓ Determine parameter library members read at IPL time
✓