z/OS Introduction and Workshop

Configuration and Customization





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 the 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)

Support Element (SE) Choice:

> 2 laptops inside the IBM Z frame 2 1U rack slots

Hardware Management Console (HMC) Choice:

- 1 Standalone desktop networked with all SE's
- 1 Rack mount device netwokred with all SE's

Hardware Management Appliance (HMA) 2 1U racks slots running HMC and SE together HMA IBM Z network with a primary HMA New with z15

Hardware Management Console (HMC) – Support Element (SE)

Tree Style (default)

Hardware Manager	nent Cons	sole				1/102		m.	
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Systems Management Systems POCESEBS	Select ^	Name ^	Statua ^	Activation ^	Last Used A	Machine Type - ^	Mechine Serial		
E Custom Groups		PODESEBS	Service required	ZAWARE		2827 - H43	0000200E9EB6	i.	
Unmanaged Resources		APIVM1	8 Not Operating	APIVMI				L	
Ensemble Management		AN APIVM2	Not activated	APIVM2				L	
HMC Management	R	्र GDLVMBUV	O Not activated	GDLVMBUV				L	
Service Management		and LX1	8 Not Operating	LXI	LX1			L	
E Turba badan		a LX2	Exceptions	LX2				L	
20 Tasks Index		ക് MCSIM	Exceptions	MCSIM	MCSIM				
		A MCSIMTST	Not activated	MCSIMTST					
		A VMALT1	Operating	VMALT1	VMALT1				
		Max Pr	age Size 500 Totat 12 Filter	ed: 12 Selected: 1				1	
	Tasks: Gl								
	inege Toggie	Detais	Daily Activate Creativate Concerning Hardware Messes Operating System Reset Normal Reset Normal Ide Recovery Removale Integrated S2010 Integrated S2010 Load Load Load System Reset Reset Clear Start Al	pes Messages Ie Media onsole Zonsole able Media or Server	E Op	erational Custon Configure Chann Customere/Delete Logical Processo View Activation P	nization al Parth GorOff A Activation Profiles ir Add roffles		

Classic Style (optional)



• New users and new installs use Tree Style as default

Hardware Management Console (HMC) – Support Element (SE)



Disk Device Address of SYSRES and SYS1.IPLPARM



Initial Program Load (IPL)



Initial Program Load (IPL)

IPL 1000 LOADPARM 0CE3W1



System Definitions

IPL loadparm SYS1.IPLPARM(LOADxx)

SYS1.IPLPARM(LOADW1)

IEASYM (W1,SV,VN) **INITSOA 0000K 0512K** IODE 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(IEASYSxx PARMLIB LVL0.PARMLIB PARMLIB SYS1.PARMLIB



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 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
File Edit View Communication Actions Window Help
<u>D</u> isplay <u>F</u> ilter <u>V</u> iew <u>P</u> rint <u>O</u> ptions <u>H</u> elp
SDSF SYSLOG 4346.101 SOW1 SOW1 04/16/2007 OW 0 COLUMNS 51 130
COMMAND INPUT ===> SCROLL ===> CSR

UUUU IEEU42I SYSTEM LUG DHIH SEI INTITHLIZED
0290 CONTROL M, OCATTET TEHANYOT - INTERNHELT ISSUED K M
0090 TEH3901 WTO USEK EATT TEH9WATT NUT FOUND
0230 TED3/11 3131.TPLPHRM ON DEVICE OCE3 SELECTED FOR TPL PHRHMETERS
0290 IE0246I NUCLST ID SV SELECTED
0290 IE02191 TODE DSN = SYS1 TODE00
0290 IEA520I CONFIGURATION ID = MVS . IODF DEVICE NUMBER = $0CE3$
0290 IEA091I NUCLEUS 1 SELECTED
0290 IEA093I MODULE IEANUC01 CONTAINS UNRESOLVED WEAK EXTERNAL REFERENCE
IFFIOM
0290 IEA093I MODULE IEANUC01 CONTAINS UNRESOLVED WEAK EXTERNAL REFERENCE
IEDQATTN
0290 IEA093I MODULE IEANUC01 CONTAINS UNRESOLVED WEAK EXTERNAL REFERENCE
IECTATEN
0290 IEA370I MASTER CATALOG SELECTED IS MASTERV.CATALOG
0290 IEE252I MEMBER IEASYMW1 FOUND IN LVL0.PARMLIB
0290 IEE252I MEMBER IEASYMSV FOUND IN SVTSC.PARMLIB
0290 IEE252I MEMBER IEASYMVN FOUND IN VENDOR.PARMLIB
0290 *IEH0081 STSTEM PHRMS FULLOW FUR Z/US 01.06.01 JBB//59 020
0290 IEnsisy 0290 IEssysyn
0290 TEE252T MEMBER TEASYSON FOUND IN LVIN PARMITE
0290 IEE252I MEMBER IEASYSLY FOUND IN LVL0.PARMLIB
0290 IEE252I MEMBER IEASYSSY FOUND IN SYTSC.PARMLIB
MA a 04/02
Connected to remote server/host 204.90.115.184 using lu/pool TCP00021 and port 623 PDF Writer (Ghostscript) on Ghostscript1:

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 IPLED 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

■ Lab System File Edit View Communication Actions Window Help File Edit Edit Settings Meny Utilities Compilers Test Help SYS1.IPLPARM(LOADW1) - 01.10 Columns 00001 00072 VIEW Scroll ===> CSR Command ===> 000001 *-----1-----2----+----3----+----4----+----5 000002 IEASYM (W1,SV,VN) 000003 INITSOA 0000M 0000M 000004 IODF 00 5751 MVS 00 Y 000005 NUCLEUS 1 000006 NUCLST SV N 000007 SYSCAT VPMVSB113CMASTERV.CATALOG CATAL OG 000008 SYSPARM (00,LV,SV,VN) 000009 SYSPLEX SVSCPLEX 000010 PARMLIB VENDOR.PARMLIB 000011 PARMLIB SVTSC.PARMLIB 000012 PARMLIB LVL0.PARMLIB 000013 PARMLIB SYS1.PARMLIB 04/015 а Connected to remote server/host 204.90.115.184 using lu/pool TCP00021 and port 623 PDF Writer (Ghostscript) on Ghostscript1:

Display IPLINFO and system PARMLIB concatenation

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File Edit View Communication Actions Window Help	
<u>D</u> isplay <u>F</u> ilter <u>V</u> iew <u>P</u> rint <u>O</u> ptions <u>H</u> elp	
SDSF ULOG CONSOLE ZIBM030 LINE 0 COLUMNS 19	- 98
COMMAND INPUT ===> SCROLL ===>	CSR
**************************************	*****
16.13.48.91 TEF254T 16.13.48 TPLINED DISPLAY 178	
SYSTEM IPLED AT 14.10.36 ON 04/16/2007	
RELEASE $z/0S$ 01.06.01 LICENSE = $z/0S$	
USED LOADW1 IN SYS1.IPLPARM ON OCE3	
ARCHLVL = 2 MTLSHARE = N	
IEASYM LIST = $(W1, SV, VN)$	
IEASYS LIST = (00, LV, SV, VN) (0P)	
IODF_DEVICE_0CE3	
IPL DEVICE 1000 VOLUME VIMVSB	
ID:13:51.54 EECSII ID.13.51 PHKMLIB DISPLHT ISU	
ENTRY ELAGS VOLUME DATA SET	
1 S VPMVSD VENDOR PARMLIB	
2 S VTMVSG SVTSC.PARMLIB	
3 S VTLVLO LVLO.PARMLIB	
4 D VIMVSB SYS1.PARMLIB	
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Master JCL for Master Scheduler

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VIEW LVL0.PARMLIB(MSTJCLSV) - 01.02	Columns	00001 00072
	Scro	$ ===> \underline{\text{LSR}}$
TATATA ATTATATATATATATATATATATATATATATA	* * * * * * * * * * * * *	* * * * * * * * * * * * * * *
000001 // STREEST 305 H30ELFEE M8860 DPTY=(15 15)		
000003 //STCINEDE DD SYSOUT=(A.INTEDE)		
000004 //TSOINRDR DD SYSOUT=(A,INTRDR)		
000005 //IEFJOBS DD DISP=SHR,DSN=VENDOR.STCJOBS		
000006 // DD DISP=SHR,DSN=SVTSC.STCJOBS		
000007 // DD DISP=SHR,DSN=LVL0.STCJ0BS		
000008 //IEFPDSI DD DISP=SHR,DSN=VENDOR.PROCLIB		
000009 // DD DISP=SHR,DSN=SVTSC.PROCLIB		
000010 // DD DISP=SHR,DSN=LVL0.PROCLIB		
DD DISPESHR, DSN=SYS1. PROCLIB		
000012 //STSUHDS DD DSN=STS1.0HDS,DISP=SHR		
000013 //STSLBC DD DSN=STSLBRODCHST,DISP=SHR		
oooold /*	*****	******
	* * * * * * * * * * * * *	* * * * * * * * * * * * * *
1A a		047015
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CLIST to easily find system parm and proc members

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File Edit View Communication Actions Window Help		
<u> </u>	<u>T</u> est <u>H</u> elp	
VIEW VENDOR.CLIST(SYSLIB) - 01.00	Columns 00001 00	072
Command ===> tso syslib	Scroll ===> <u>C</u>	<u>SR</u>
****** *******************************	******	****
000001 PROC 0		
0000002 ALLOC SHR REUSE FI(\$PARMLIB) DA(-		
000003 VENDOR.PHRMLIB' -		
AAAAA7 ALLAC SHEREFICISPROCLIB) DA(-		
AGGAGE 'VENDOR PROCEED' DIT		
000009 'SVISC.PROCLIB' -		
000010 'LVL0.PROCLIB' -		
000011 'SYS1.PROCLIB')		
000012 ALLOC SHR REUSE FI(\$STCJOBS) DA(-		
000013 'VENDOR.STCJ0BS' -		
000014 'SVTSC.STCJ0BS' -		
000015 'LVL0.STCJ0BS')		
000016 ISRDDN		
000017 EXIT		
***** ********************************	******	****
1A a	04	1025
P Connected to remote server/host 204.90.115.184 using lu/pool TCP00021 and port 623	PDF Writer (Ghostscript) on Ghostscript1:	
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View system PARMLIB concatenation

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File Edit View	Communication Actions	Window Hel	p			
Command	===>		Current D)ata Set Allocati	ions	Row 1 of 160 Scroll ===> <u>PAGE</u>
Command Volume VPMVSD VTMVSG VTLVL0 VIMVSB VPMVSD VTMVSG VTLVL0 VIMVSB VPMVSD VTMVSG VTLVL0 VPMVSA VTLVL0 VFMVSE VTMVSE VTMVSE VTMVSE VTMVSE	===> Dispositi SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP SHR,KEEP	on Act	DDname \$PARMLIB \$PROCLIB \$STCJOBS ADMCDATA ADMCFORM ADMCGM ADMGDF	Data Set Name VENDOR.PARMLIB SVTSC.PARMLIB LVL0.PARMLIB SYS1.PARMLIB VENDOR.PROCLIB SVTSC.PROCLIB SVTSC.PROCLIB VENDOR.STCJOBS SVTSC.STCJOBS LVL0.STCJOBS QMF810.ADMCDATA QMF810.SDSQCHRT GDDM.SADMMAP GDDM.SADMMAP QMF810.ADMGDF	Actions: B	Scroll ===> <u>PAGE</u> E V M F C I Q
VTMVSE	SHR, KEEP	<u>></u>	ADMGGMAP	GDDM.SADMMAP		
VTMVSE VTMVSE VTMVSE VTMVSE VTMVSE VTMVSE	SHR, KEEP SHR, KEEP SHR, KEEP SHR, KEEP SHR, KEEP SHR, KEEP	> _ > _ > _ > _ > _	ADMIMG ADMPROJ ADMSYMBL	GDDM.SADMMAP GDDM.SADMMAP GDDM.SADMMAP GDDM.SADMMAP GDDM.SADMMAP GDDM.SADMSYM		
VPUT8A	SHR, KEEP	> _		QMF810.ADMSYMBL		
VPMVSD VPUT8A	SHR,KEEP MOD,DEL SHR,KEEP	>	CIDTABL DSQDEBUG DSOPNLE	VENDOR.CIDTABL JES2 OMF810.DSOPNLE	Subsystem	file
MA a						067025
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SYSPARM IEASYSxx values in PARMLIB

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File Edit View Communication Actions Window	w Help			
Menu Functions Util	ities Help			
VIEW VENDOR.PARMLIE	}		Row 00139	of 00262
Command ===>			Scroll :	===> <u>PAGE</u>
Name Prompt Li	b Size	Created	Changed	ID
. IEASYMW3	3 3	1996/06/21	1996/06/21 11:19:53	SVTSCU
. IEASYSAA	3 19	1997/07/15	2002/03/14 20:18:53	RAMON
. IEASYSAP	3 6	1998/08/07	1998/08/07 11:34:01	TODD
. IEASYSFS	3 11	2003/09/18	2003/09/18 15:00:00	PKRUTZA
. IEASYSLV	3 65	1999/04/15	2004/03/10 11:58:25	PKRUTZA
. IEASYSSV	2 29	1998/10/07	2006/05/18 10:37:39	IBMUSER
. IEASYSVN	1 10	1998/10/07	2001/08/10 16:24:48	RAMON
. IEASYSZE	3 2	2002/01/29	2002/01/29 19:44:34	RALEY
s <u>I</u> EASYS00	3 4	1997/07/15	1997/07/15 16:45:14	TODD
. TEASYS52	3 9	1998/08/07	1998/08/07 11:33:20	TODD
. IEASYS98	3 61	2001/10/11	2001/10/11 13:24:06	PKRUTZA
. IEASYS99	3 56	1998/10/09	1999/01/04 16:21:34	TODD
. IEAVIPCS	4			
. IECIOSTC	3 3	1996/07/09	1997/06/10 18:18:38	RALEY
. IEFIPCSA	4			
. IEFIPCSI	4			
. IEFIPCST	4			
. IEFSSNAT	3 1	1999/12/02	1999/12/02 18:41:00	TODD
. IEFSSNDB	2 3	2006/05/17	2006/05/17 12:30:35	DPACK
. IEFSSND1	3 2	1996/07/17	1996/07/17 06:22:01	DPACK
. IEFSSND2	3 2	1997/09/24	2000/06/17 19:19:31	TODD
. IEFSSNFF	3 1	1997/04/18	1997/04/18 18:15:18	RALEY
. IEFSSNI9	2 2	2006/05/17	2006/05/17 12:30:56	DPACK
. IEFSSNJ2	3 6	1998/08/07	1998/08/07 11:32:00	TODD
. IEFSSNJ3	3 7	1996/02/23	1998/08/07 11:42:48	TODD
. IEFSSNMQ	2 6	2002/10/22	2005/08/08 16:39:04	IBMUSER
. IEFSSNPE	3 1	1999/11/16	1999/11/16 18:43:54	TODD
MA a 14/004				
Connected to remote server/host 204.90.115.184 using lu/pool TCP00021 and port 623 PDF Writer (Ghostscript) on Ghostscript1:				

IEASYS00 is read first. IEASYS00 has few parameters

File Edit View Communication Actions Window Help	
<u> </u>	s <u>T</u> est <u>H</u> elp
VIEW LVL0.PARMLIB(IEASYS00) - 01.00	Columns 00001 00072
Command ===>	Scroll ===> <u>CSR</u>
000001 CLPA.	*****
000002 REAL=280, ALLOWS 2 64K JOBS	OR 1 128K JOB TO RUN V=R
000003 RSU=0, NO RECONFIG STORAG	E UNITS DEFAULT
****** *******************************	****
	04/015
"Connected to remote server/host 204.90.115.184 using lu/pool TCP00021 and port 623	PDF Writer (Ghostscript) on Ghostscript1:

IEASYSLV is read 2nd. IEASYSLV has more parameters

and and a system	
File Edit View Communication Actions Window Help	
<u>F</u> ile <u>E</u> dit E <u>d</u> it_Settings <u>M</u> enu	<u>U</u> tilities <u>C</u> ompilers <u>T</u> est <u>H</u> elp
VIEW LVL0.PARMLIB(IEASYSLV)	- 01.23 Invalid command
Command ===>	Scroll ===> <u>CSR</u>
***** *********************************	*** Top of Data **********************************
000001 APG=07,	AUTOMATIC PRIORITY GROUP IS 7 DEFAULT
000002 CLOCK=SV,	SELECT CLOCK SETTING
000003 CMB=(UNITR,COMM,GRAPH,CHRDR	R), ADDITIONAL CMB ENTRIES
000004 CMD=(&JESSSN.,00,LV,LW,SV,V	VN),
000005 LUN=00,	SELECT CONSOLOO DEFHOL
000000 COUPLE=SV,	MVS/ESO CSO DONCE
000007 CSH=(4500,30000), 000008 CSCBL0C-080VE	MASTESH CSH KHNGE
AAAAAA DEVSUP-SV	SET TOPC DEFAULT
000005 DEVSON = 57,	PLACE SVC DUMPS ON DASD DEVICES DEFAULT
000011 FIX = (00 RE)	FIX MODULES SPECIFIED /*J3*/
000012 GRS=TRYJOIN.	
000013 GRSCNF=00.	
000014 GRSRNL=SV,	
000015 ILMMODE=NONE,	
000016 IOS=TC,	
000017 LNKAUTH=LNKLST,	AUTHORIZE LNKLST00-DEFAULT, APFTAB IS ALT
000018 LOGCLS=C,	WILL NOT BE PRINTED BY DEFAULT
000019 LOGLMT=008000,	MUST BE 6 DIGITS, MAX WTL MESSAGES QUEUED
000020 LOGREC=SYS1.&SYSNAMELOGRE	EC,
000021 LPA=(00),	
000022 MAXUSER=300,	(SYS TASKS + INITS + TSOUSERS)
000023 MLPA=(RF,I5), M	MLPA PARAMETERS
000024 MSTRJCL=SV,	
000025 PHGTUIL=(8),	WHX # PHGE D/S HVHILHBLE - HLLOWS 3 HDD.L
000026 PHK=00, 000027 DLEVCEC MULTISYSTEM	TEHPHKOO
000027 PLEAUFG=MULTISTSTEM,	
	04/01
Connected to remote server/host 204.90.115.184 using lu/pool TCP00021	1 and port 623 PDF Writer (Ghostscript) on Ghostscript1:

IEASYSSV is read 3rd-duplicate parm values are overridden

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File Edit View Communication Actions Window Help	
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VIEW SVISC PARMLIB(IEASYSSV) - 01.06 Columns	00001 00072
Command ===> Scrol	1 ===> CSR
***** ********************************	****
000001 CMD=(&JESSSN.,00,LV,LW,SV,VN,60),	
000002 CSA=(4500,800000), MVS/ESA CSA RANGE	
000003 DUMP=DASD,	
000004 LPA=(00,60,64),	
000005 MLPA=(RF,I9),	
000006 OMVS=(0M,VN,60,MS,64), ALLOW OPERATOR OVERRIDE	TO IEASYS00
000007 PAGE=(PAGE.&SYSNAMEPLPA,	
000008 PAGE.&SYSNAMECOMMON1,	
000009 PAGE.&SYSNAMELOCALA,	
000010 PAGE.&SYSNAMELOCALB,	
000011 PAGE.&SYSNAMELOCALC,	
000012 PAGE.&SYSNAMELOCALD,	
000013 PAGE.&SYSNAMELOCALE,	
000014 PAGE.&SYSNAMELOCALF,	
000015 PAGE.&SYSNAMELOCALG,	
000016 PAGE.&SYSNAMELOCALH,L),	
000017 PROG=(00,64,52,J3,AA,DB,C6,I9,MS,	
000018 SY,LA,LB,MC,MD,LE,LG,LJ,LN,D8,B6,MR,L9),	
000019 PAGTOTL=(14),	
000020 SCH=(00,19,TC,MQ,AT,C6), PPT UPDATES	
000021 SSN=(SM,&JESSSN.,RF,TC,MQ,FF,PE,RS,AT,DB,64),	
000022 SVC=(19,64),	
000023 VAL=00 SELECT VATLST00	DEFAULT
000024 /* COMMENTS:	
000025 /*	
000026 /* USE THIS MEMBER TO OVERRIDE PARAMETERS IN LVL0.PARMLIB(IE	ASYSLV)
000027 /*	
	04/015
Connected to remote server/host 204.90.115.184 using lu/pool TCP00021 and port 623 PDF Writer (Ghostscript) on	Ghostscript1:

IEASYSVN the last member read has only one parm entry

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File Edit View Communication Actions Window Help	
<u> </u>	<u>H</u> elp
VIEW VENDOR.PARMLIB(IEASYSVN) - 01.03 Colu	umns 00001 00072
Command ===>S	Scroll ===> <u>CSR</u>
***** ********************************	*****
000002 /* COMMENTS:	
000003 /*	
000004 /* USE THIS MEMBER TO OVERRIDE PARAMETERS IN	
000005 /* SVISC.PHRMLIB(IEHSYSSV) HND LVL0.PHRMLIB(IEHSYSLV)	
000007 /* PUT ONLY THE PARMS REQUIRED HERE. DO NOT COPY ALL TH	HE PARMS FROM
000008 /* IEASYSSV OR IEASYSLV TO THIS MEMBER.	
000009 /*	
***** ********************************	NEED HELP. ******
M <u>A</u> a	04/015
💬 Connected to remote server/host 204.90.115.184 using lu/pool TCP00021 and port 623 PDF Writer (Ghos	stscript) on Ghostscript1:

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)

SYS1.LPALIB

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 L	_ibrares are searched for JOB and STC PROCs
//PROC00	DD	DSN=SYS1.PROCLIB,DISP=SHR
//	DD	DSN=SYS3.PROD.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

...

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 data sets such as the page data sets

Professional Manuals

+ z/OS MVS

z/OS MVS Initialization and Tuning Guide	SA23-1379-40	18 Dec 2019	PDF ieae100_v2r4.pdf (1.92MB)
z/OS MVS Initialization and Tuning Reference	SA23-1380-40	23 Jun 2020	PDF ieae200_v2r4.pdf (3.44MB)
+ z/OS JES2			
z/OS JES2 Initialization and Tuning Guide	SA32-0991-40	25 Mar 2020	PDF hasa300_v2r4.pdf (3.3MB)
z/OS JES2 Initialization and Tuning Reference	SA32-0992-40	25 Mar 2020	PDF hasa400_v2r4.pdf (2.45MB)

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

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